

Red Line

~~Mathematics~~
+
~~Chemistry~~

POCKET NOTE

BOOK



PROPERTY OF

~~Park X~~
310 So. ...
20

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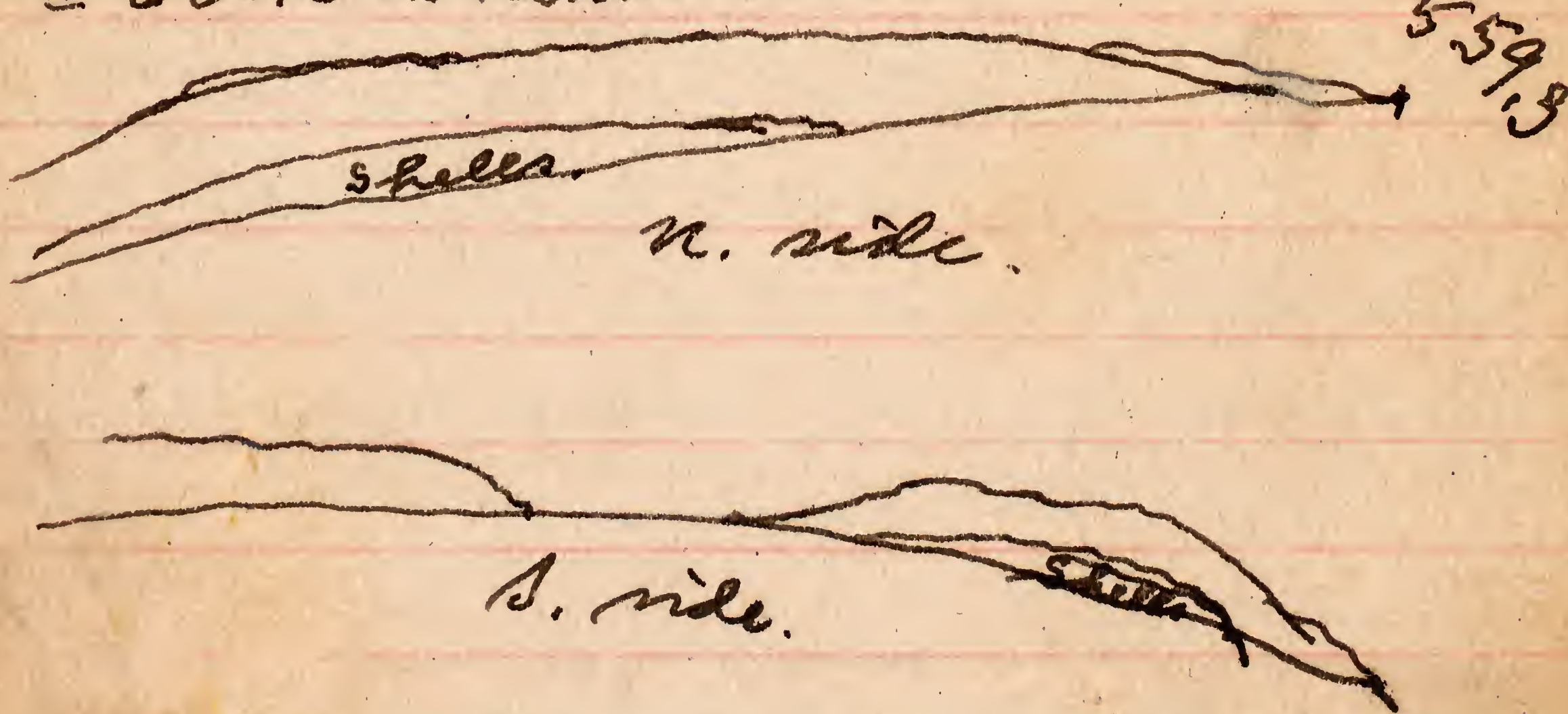
Old cut / along RR - S.W. of
Atlanta, Ga. 6/11/1935.

Collected shells, mostly in lower
3 or 4 ft. of cut where about 7 ft.
deep. Took small carton of loess.

This cut is on a low broad
ridge running at right-angles
to Road #6, or angling. 1.6
Road cut ridge at angle ~~1.7~~ mi.
S.W. of Atlanta (on Road #6)

1st cut SW

On #6, 1.8 mi. S.W. of Atlanta
(at 559.3, - a long cut begins.
= 626.3 on return.



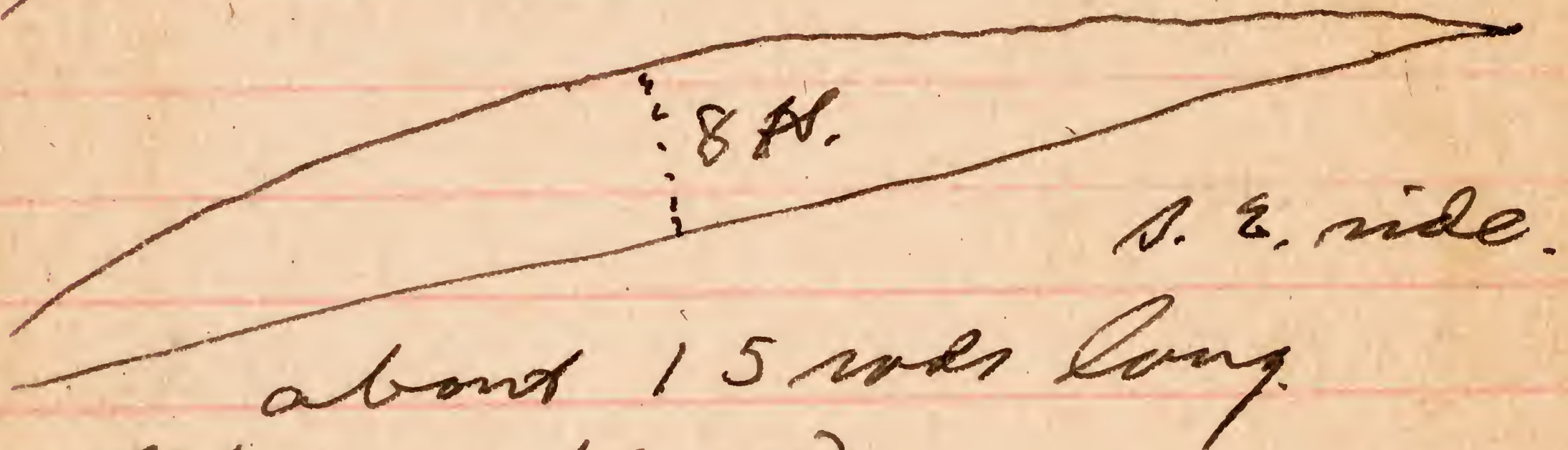
Runs down S.W.
On return took box of loess from lower
part, about 1/3 of way up the hill.

2nd cut.

4/11 1935

2

Cut 4 mi. S.W. of Atlanta, Neb.
at 561.3 - on slope running up
to S.W.



Like cut 1 (old)

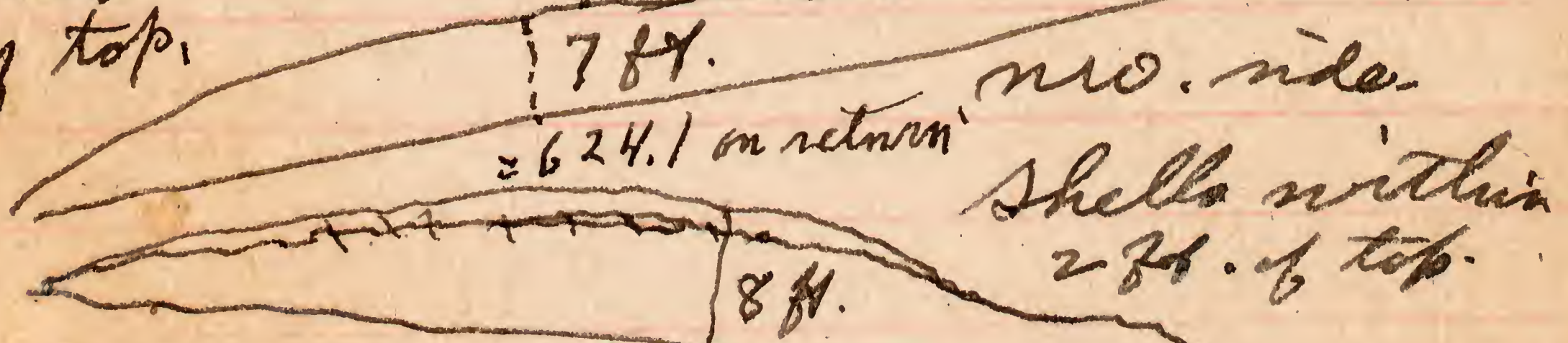
Fossiliferous mostly in lower $\frac{1}{3}$

This cut is also on broad, irregular
ridge. See shells.

6/11 1935

3rd cut S.W. of Atlanta, Neb. on #6,
at 561.7, 4.4 mi. S.W.

about 15 rods long & 8 ft. deep
in deepest part. Equally good on both
sides. Took box of loess on return - within $2\frac{1}{2}$ ft.
of top.



Succinea ovalis, - up
6 ft. or more, - 2 were 1 ft. from
top.

6/11 1935

3

Mascot - - 567.8

Good cut, sloping ^{down} S.W. at 569.6

another at 569.8 sloping up
S.W.

" short, at 570.4

" " " 570.7

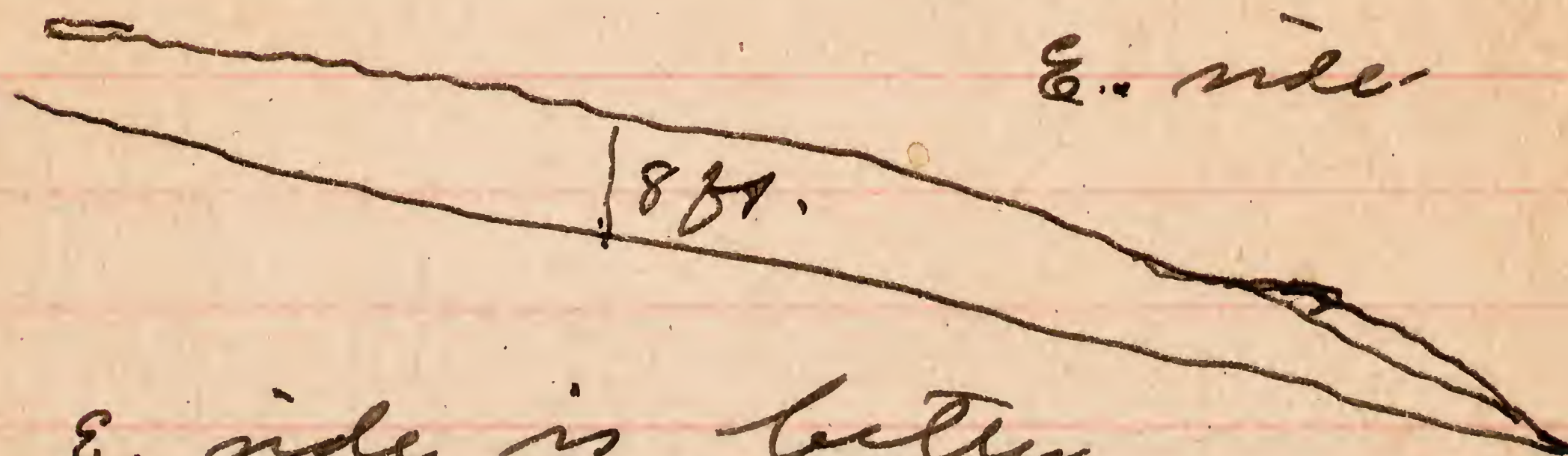
" " " 571.6

Oxford - 573.3

6/11 1935

On # 21, .6 mi. N. of Arapahoe, Neb.

6/11 1935



E. side is better.
Like other cuts noted.
Took sample + fossils.

617.9
~~615.1~~
28

11 1925

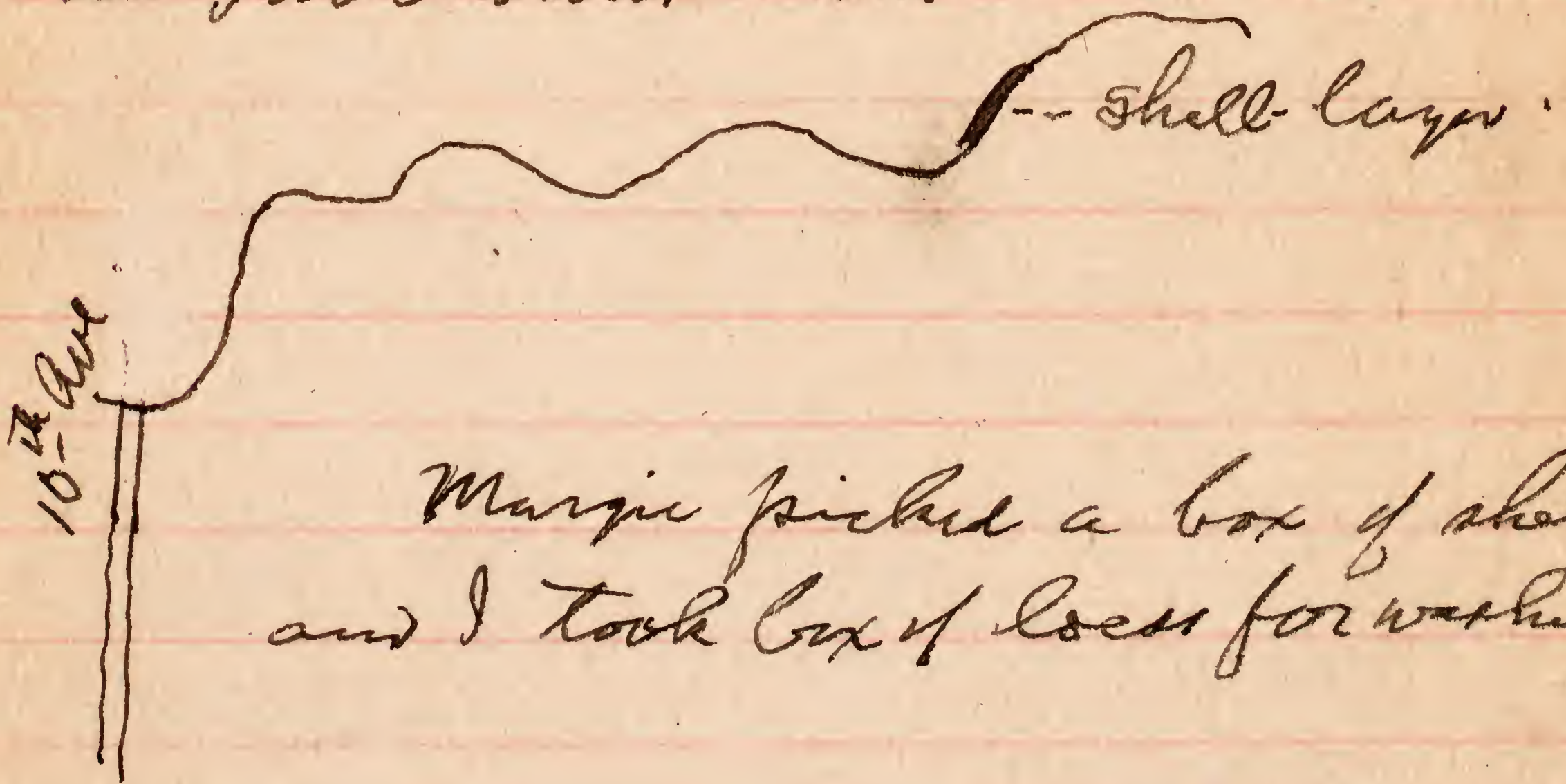
4

6/11 1935.

at 645.1, 2.8 mi. sw. of Mascot, Neb.
on Road #6

cut 8⁹ ft. deep - some shells.
This is good cut 9 ft. deep;
about 300 ft. long. Both sides
good. see shells.

Council Bluffs, Ia., 6/12 1935
Shell layer along road opposite 10th Ave.,
in Fairmount Park.



7/12 1935. Adams Co.

Cut 2.4 mi. west of Marcelline, Ill.
(at 117). In road.

on S. side

about 12 ft. deep.

... Fossils.

yellow loess.

see sample.

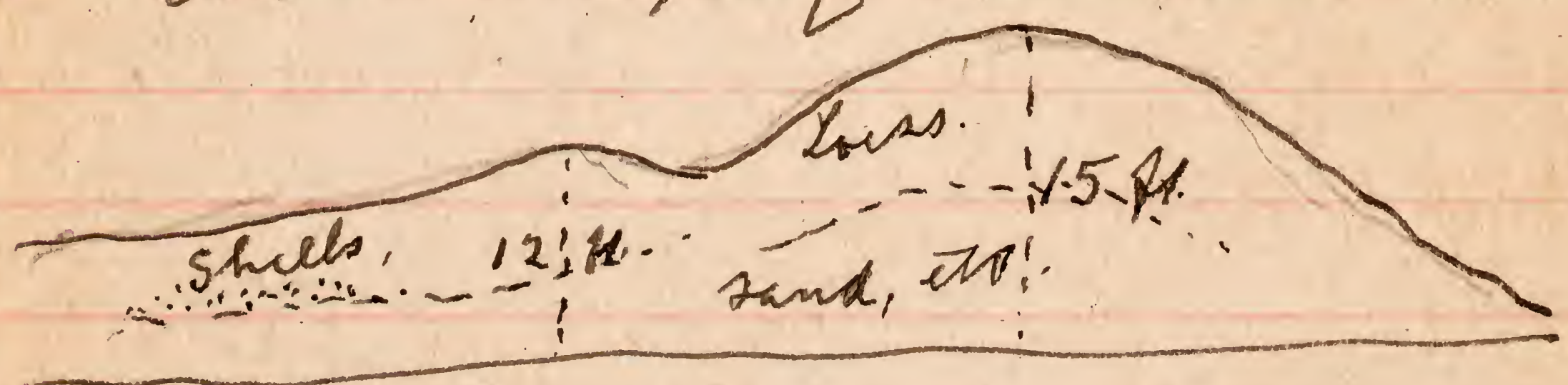
Road.

Fossils abundant in first two
ft. near base.

7/12 1935.

at Kinderhook, Pike Co., Ill.

at S. edge of village



Road.

Yellow sandy loess, with sand
below. Some nodules + shells.
see spec.

7/12 1935. Alton, Ill.

6

Cliff str. -

Visited bluff-cut at W. end
of Cliff str.
collected 3 boxes of shells.

July 13, 1935

Cut on #40, opposite St. John's
Cemetery, 1.9 mi. W. of Collinsville, Ill.
where road runs down hill on bluff
towards the west.

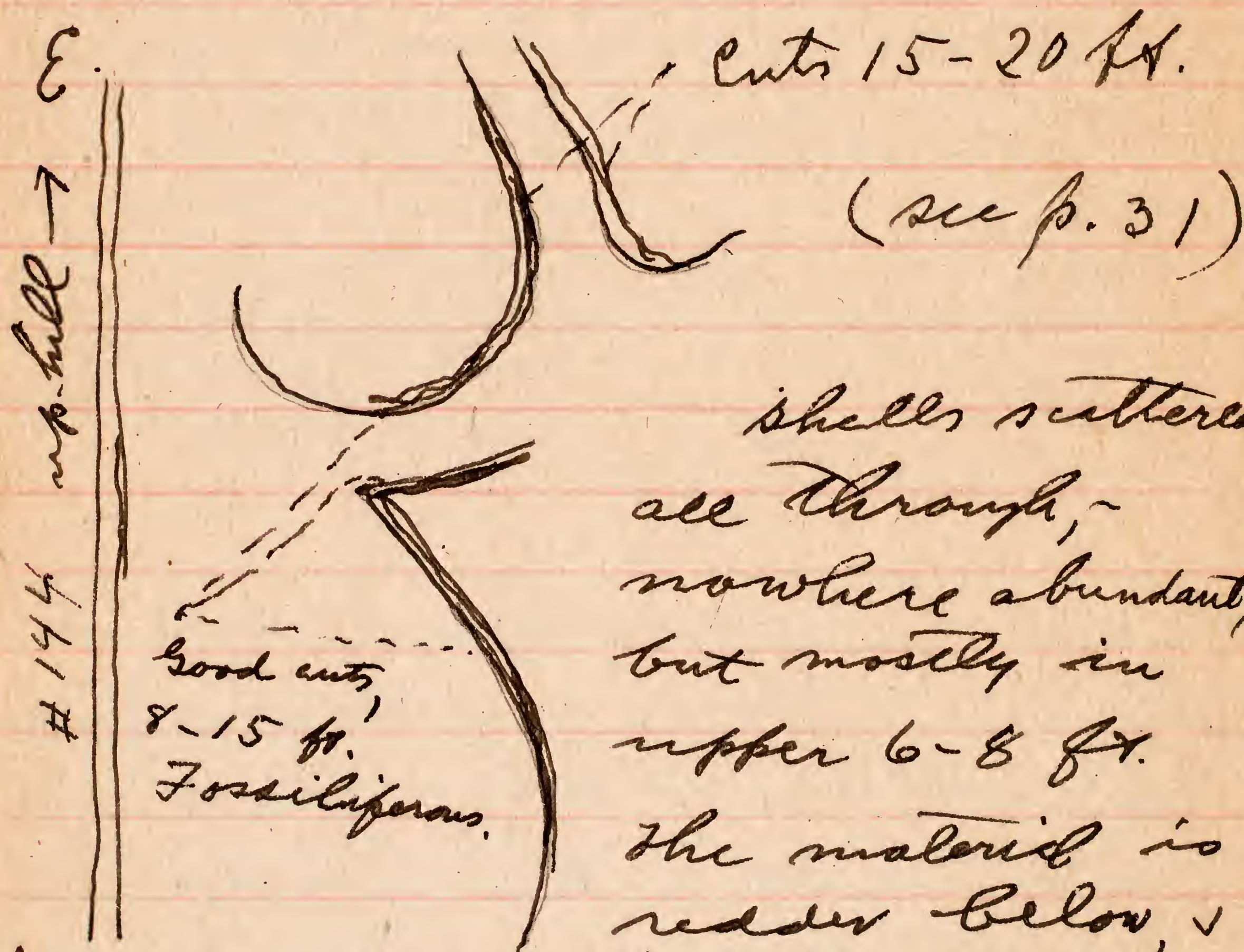
A long cut along road.
12 to 15 ft. deep.

Fossils seem to be scattered
through at least lower $\frac{2}{3}$.

The loess is mottled with much
iron. Took shells, sample & box
of loess.

7
7/13 1935. Cuts where Road #144

enters bluff, - at $\frac{413}{409} \frac{3}{21}$ or
4.1 mi. S.E. of Grain, Ill.



shells scattered
all through,
nowhere abundant,
but mostly in
upper 6-8 ft.

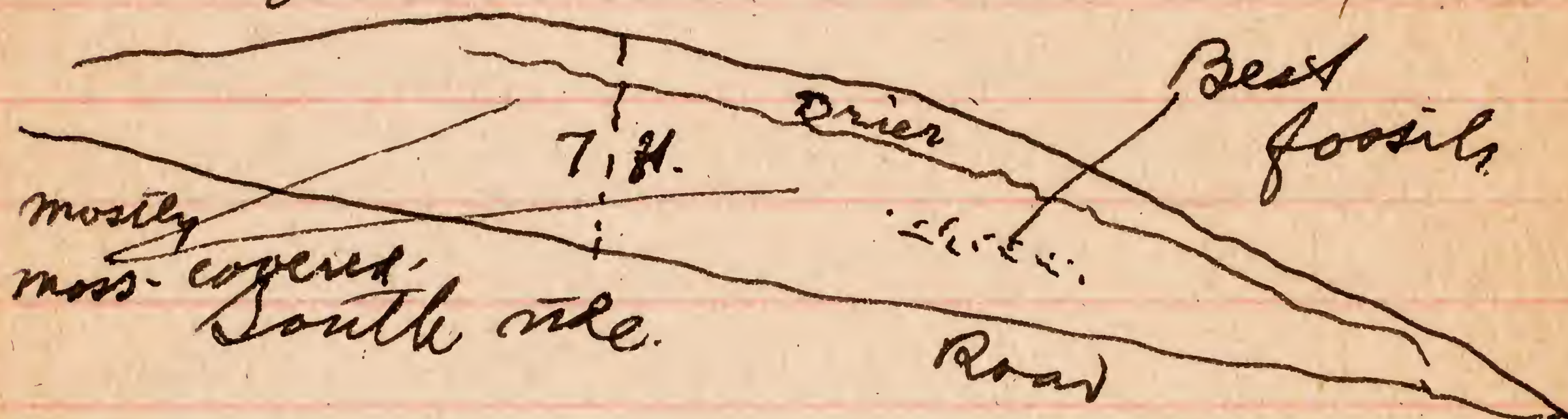
The material is
redder below,
with no fossils.

The fossiliferous upper part is
mostly finer & lighter yellow, not
reddish, but even the upper part
of the redder stuff, grading into
yellow loess, had a few fossils.

July 14, 1935

at 691.7, 3.9 mi. NW. of Mt. Vernon Ind.
on Road #62 - a good
loam cut on a rather gentle
slope to west, in nice woods.

7.1½ mi. NW. from Conestoga, on #62



The loam is yellow and fine, with the shells scant and scattered all through but mostly about 3-5 ft. from top.

The upper 1½ ft. is drier & has no moss on it. Lower part below this, is nearly all covered with young mosses. Small set of shells, & some modern, & a sample.

The N. side is similar, about 8 ft. high, not as clear, with shells 5 or 6 ft. down, few & with coarser stuff with many lime nodules near base.

This is a ridge of low bluff, facing river - flat.

July 14, 1935

S. + W. from Mt. Vernon, Ind.

1st cut along ^{1st} road to Mackey Ferry,
about 1 mile out:

Fine exposure of same yellow
loess as in preceding.

Took sample & nice lot of fossils.

Fossils were scattered through
about the lower 6 ft. - I could
not reach higher.

Roughly estimated at 12 ft.
No nodules.

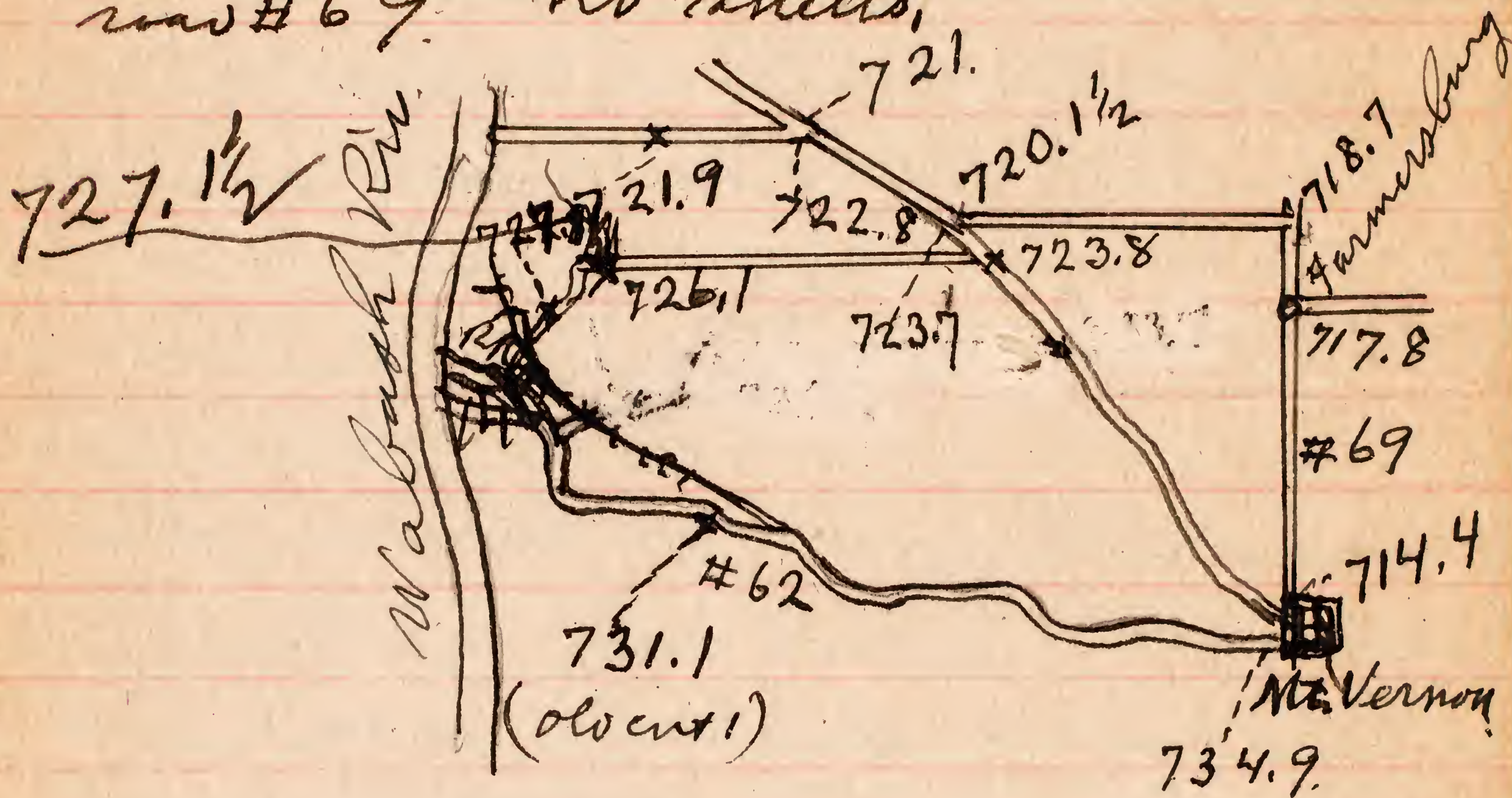
(See p. 116 of notebook (1935)
for sketch of topography.)

For topography & notes along 2nd
road (S.) to Mackey's Ferry, up. 121.

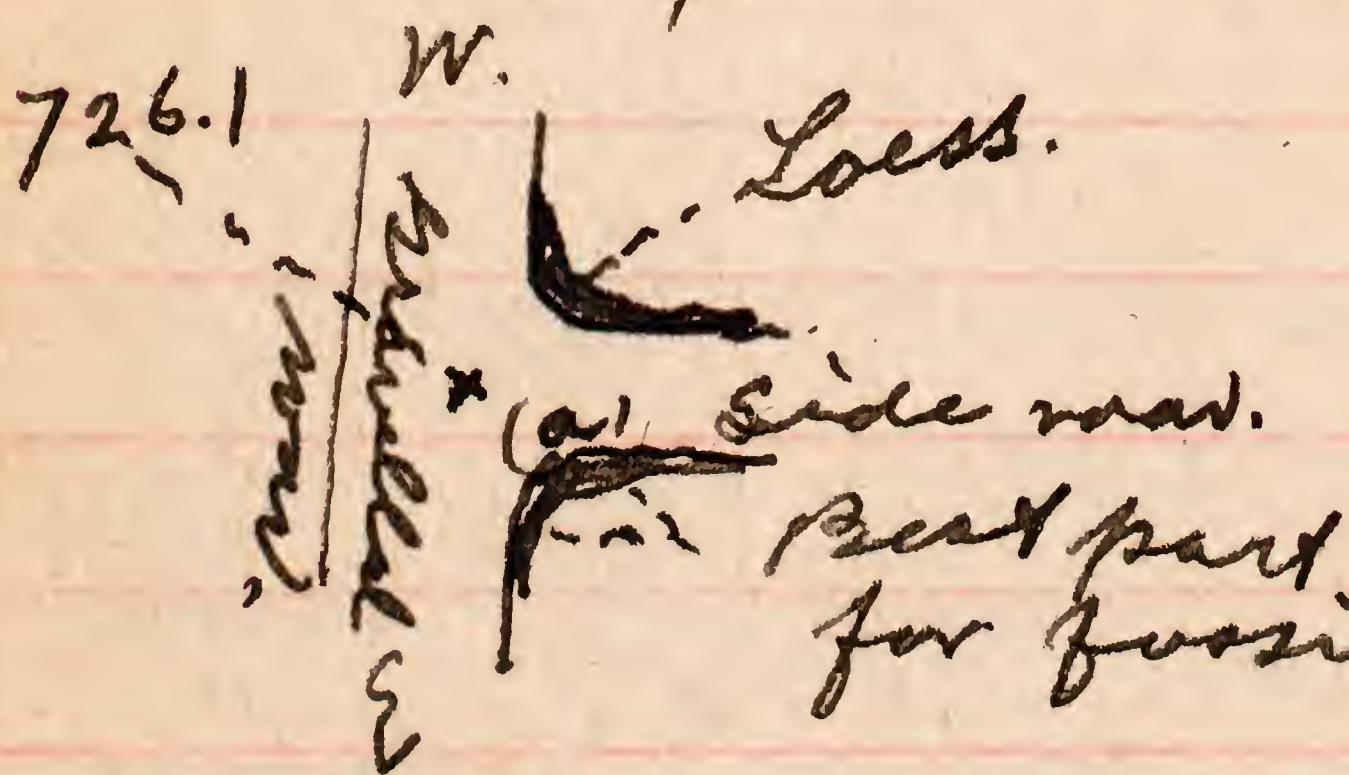
July 15, 1935

10

West on 1st road N. of Farmersburg,
Ind., - thence NW, to 1st turn N.
& then west to cut - 3.2 mi. from
road #69. No shells.



at 726.1 (3.8 1/2 mi. W. of Farmersburg
(or rather, road #69 N. of Farmersburg).



The same yellow
loess, with shells
scattered all
through, but
nowhere abundant.

The N.E. side, (a), has about 5 ft. of
fossilif. loess below, & above it about 3
or more feet of reddish jointed stuff.
See samples of both, & also shells.
(over)

The upper layer is really
not a joint clay but a
harder, coarser loess (?) with
some stratification. It is redder
than the light yellow (or
slightly brownish) loess.

July 15, 1935

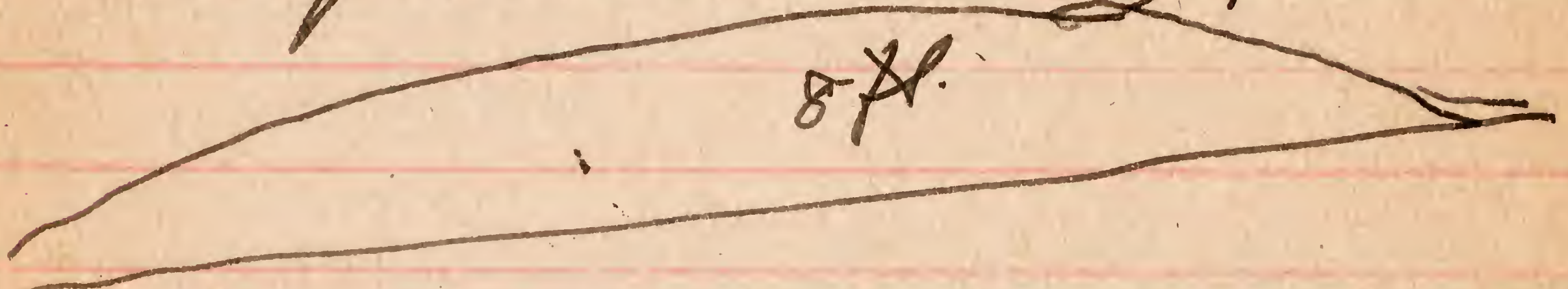
11

July 15, 1935

11

At 727.1 $\frac{1}{2}$ (4.9 mi. W. of
#69 above Farmington.)

A fine loess exposure about
18 ft. deep on W. side (less, &
overgrown on S. side).



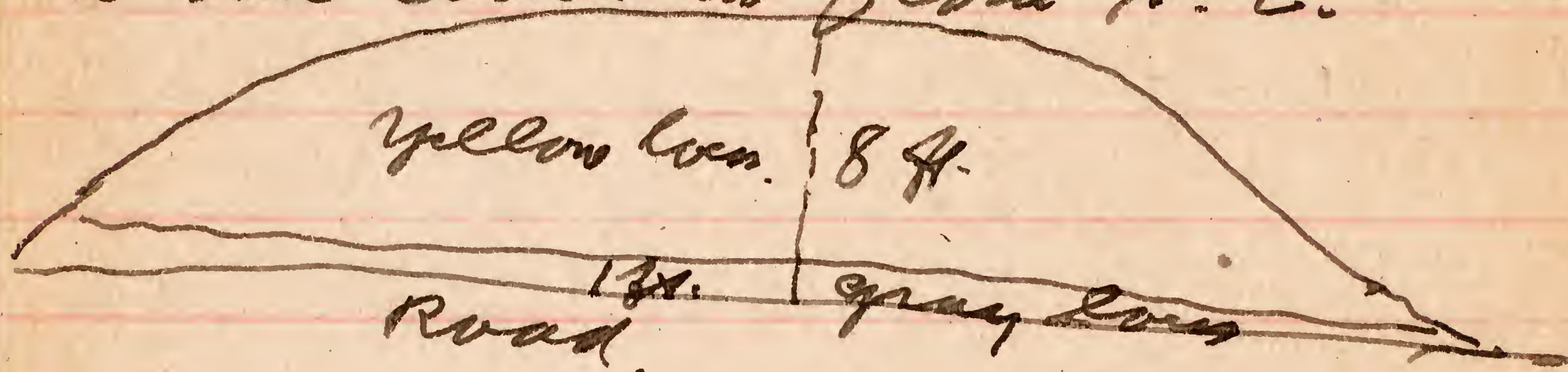
The shells are scattered all
through as far as I could see.
The loess becomes gray in
lowest part, with many iron
mottlings.

Took sample & box of loess. Shells

July 15, 1935

12

On E. side of no. 69, 13.2 miles
N. of Mount Vernon, Ind., where
a road comes in from S.E.



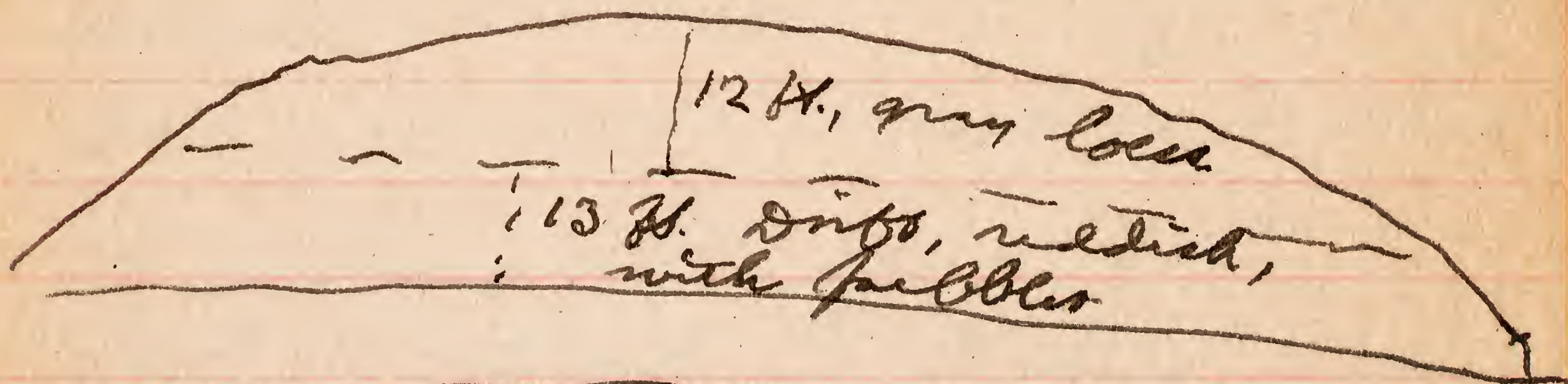
It runs about 8 ft. in highest place.
The shells are scattered all
through quite to the top and
into gray layer (about 1 ft. exposed)
at base. Modules are scattered
irregularly through upper layer.
Gray loess is smooth, uniformly
gray, with only occasional
clondings of iron. The upper
loess, which looks yellow on
older surfaces, is mottled and
streaked with iron, - more
pronounced below.

The fossils are about equally
scattered through both.

July 15, 1935

Cut 1.3.5 mi. N. of Mo. Vernon, Ind., on #69, there is a long cut along E. side (none on west). The loess here runs about 12 ft., & seems to be all gray.

The lower 10-13 ft. is a hard joint clay with pebbles scattered through it, - especially downward. A few shells were found in slumped lumps of gray loess.



July 15, 1935

Cut on road to old dam, 1.1 mi. SW. of New Harmony, Ind. (at 757.9), 12 ft., on N. side of road, shows the yellow loess.

Found only 3 shells.

At 758 - another similar smaller cut.

July 15, 1935

14.

A larger cut at 758.1 (.9
mi. SW. of New Harmony on old
road to dam), ^{fully} 12 ft. deep.
on S. E. side of road. Shows
gray loess. Shells scattered.
See ref. This is at edge of
Town, opposite cemetery.

July 15, 1935

about 1.75 mi. S.E. of Kilroy,
Ind., on road leading E., where
it enters bluff - at 811.4.

Cut is about 12 ft. deep, & shows
the yellow, heavier loess, becoming
gray below.

Shells and nodules scattered.

The gray below was not decided
see shells.

July 16, 1935

15

Along Lower Mt. Vernon road S.
(+ W.) of New Harmony, Ind.

Rush Cr. cut. at 823.6, 4.5 mi.
S (+ W.) on this road.

Now at least 12 ft. deep on both
sides. The shells are scattered
through both sides, - rather more
abundant within 3 or 4 ft. of base.
Took samples from each side, and
shells.

July 16, 1935

16

After #56 crosses RR. at Hazelton, turn left on gravel road, .9 from RR., a fine graded terrace shows about 9 ft. of gray loess (with very little iron discoloration), with shells scattered all through.

See small set of shells. Took sample.

at 940.6 - Took sample of red stuff.

July 16, 1935

On #61, N. of Petersburg, Ind.,
S. of White River at 960.8½,
1.3½ mi. N. of Petersburg,

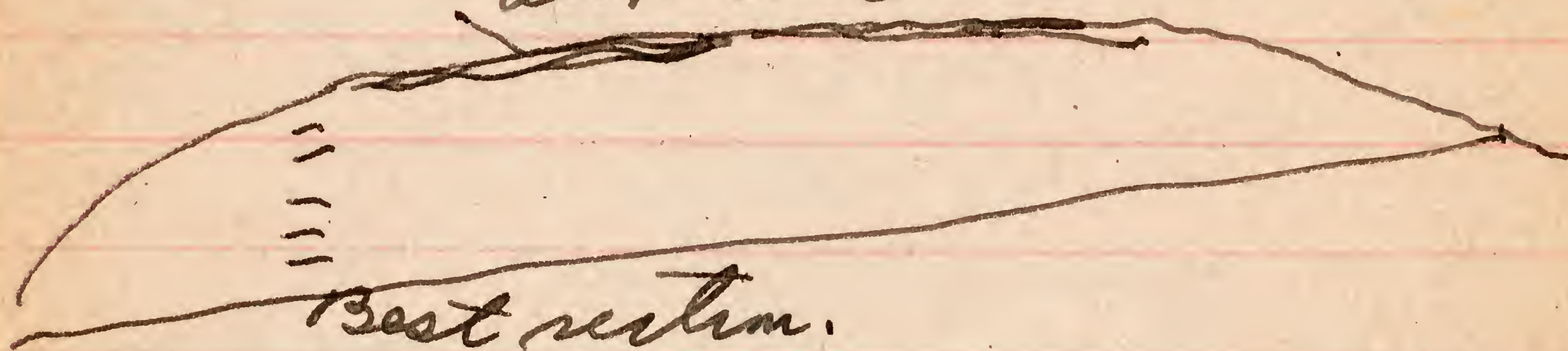
On E. side cut is over 25 ft. deep.
At top about 5-6 ft. of reddish
loess. Then heavier loess, some
parts gray, about 5 or 6 ft.

Then red drift about 18 or 20 ft.
Loess very hard when dry (gray)
Picked up shells from fallen
lumps of gray loess, shells very
fragile. Mostly properly gray, but upwards
it is yellowish.

July 17, 1935.

17

E. of Vincennes, Ind. on #6/-
1st cut in bluffs, about 1.2 mile
E. A very interesting cut. It runs
up a moderate grade, eastward.
Much of cut is overgrown,
especially on N. side, along cut.
atop soil?



- ~~soil~~ soil—
- 9 ft. of sand.
- 2 ft. of sandy loess - Succinea
- 2 ft. sand.
- 2 ft. fine loess.
- 2 1/2 ft. red drift
- 8 ft. red, pebbly drift

The lower loess is soft, yellow
seems to have no nodules
and shells are scattered all
through and extend down to the
sharply defined red stuff.
(over)

The upper loess is sandier
and contains only Succinea.
Layers not uniform.
Evidently alternating dry
& more moist periods.

In lower loess.

Anguispira alternata
Discus

Helicodiscus parallelus

Polyzyna profunda

" *multilineata*

" *hirsuta*

" *fratensis*

Pupilla muscorum

Succinea ovalis

" *acuta*

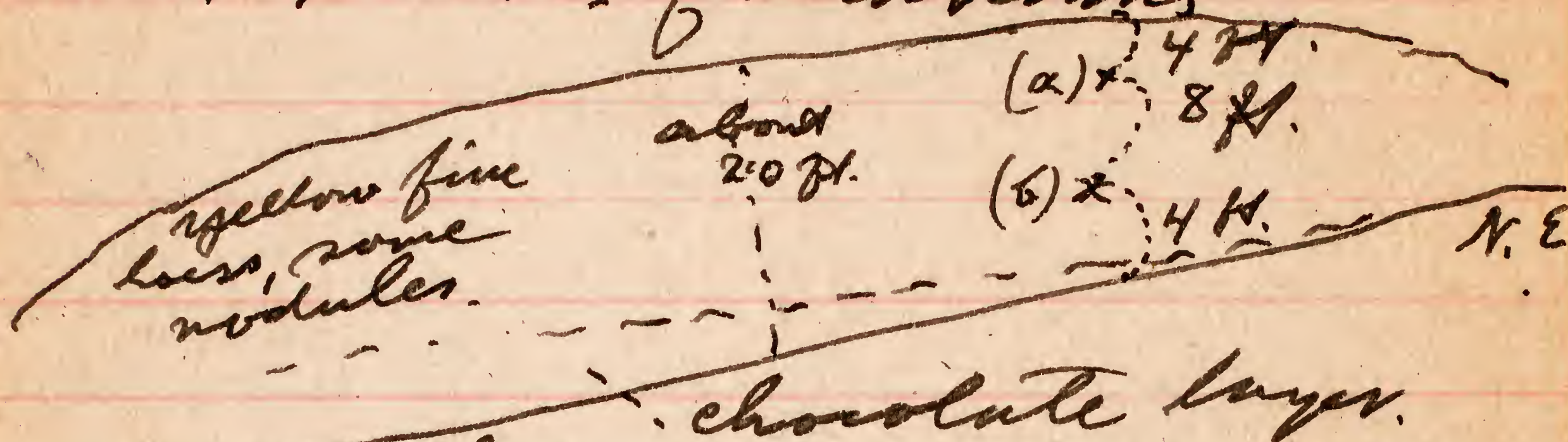
Helicina scutella

Aug. 27, 1935

Aug. 27, 1935

18

Cut along road in SW $\frac{1}{4}$
Sec. 14 - N. 2. of Lewistown.



S.W. Road.

at (a) upper sample.

at (b) lower

Shows vertical narrow gullies
but without sharp ridges between.

This was at 202.2 miles on return.

3.5 mi. E. + 1.3 mi. N. 2. of
Lewistown.

Cut is a little over $\frac{1}{2}$ a tenth of a
mile long. (about 275 ft.)

The shells are more or less in
two layers - corresponding to
two samples.

See shells

Aug. 27, 1935

19.

Cut 3.5 miles E. and 1 mi. S. of
Leviatown.

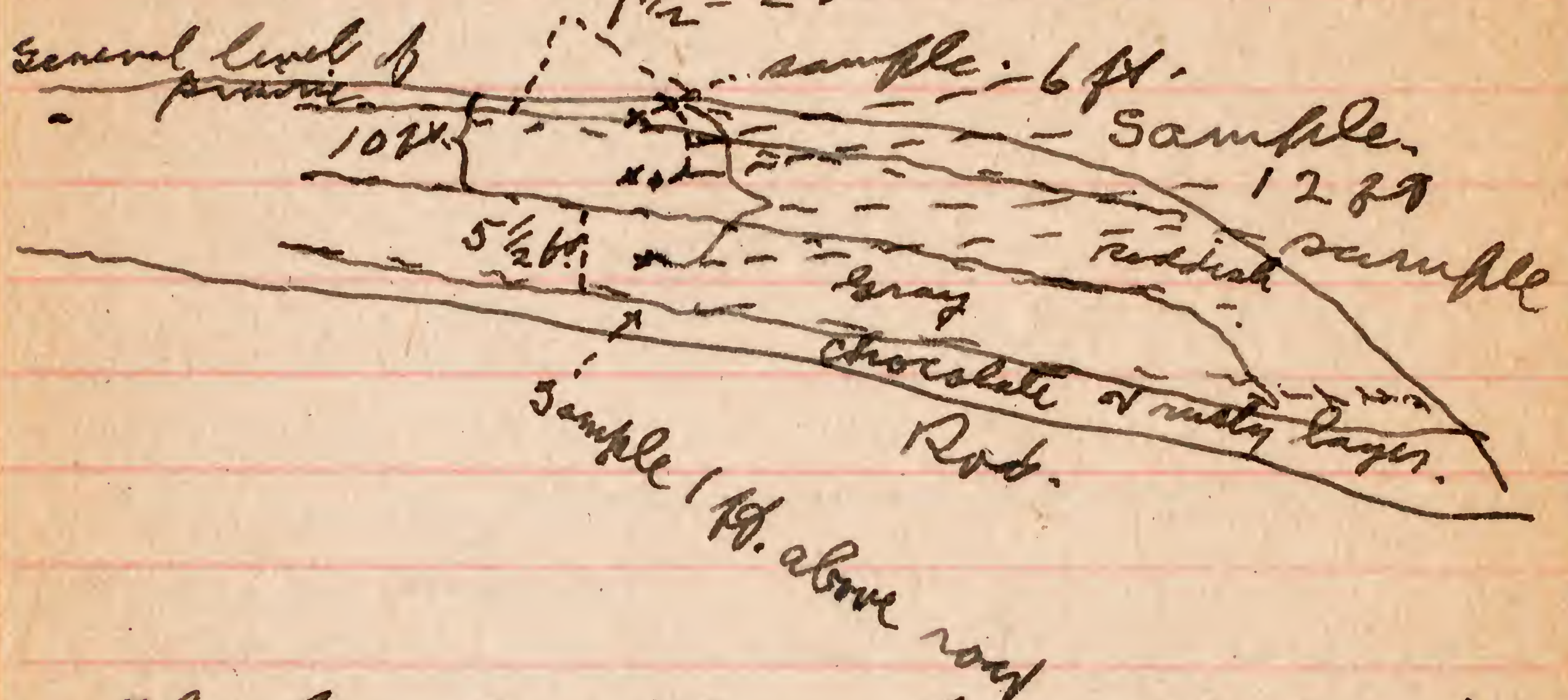
Here is a fine cut. Also
shows 2 layers of shells, like
that in Sec. 14. Margin
picked fossils from upper
layer and I from lower
(see description next day) p. 21.)

We found a number of the
inland cuts without fossils,
but the cut in Sec. 14 faces the
Illinois River flat, and the
other cuts N. of there is not
far inland.

The loess is lighter yellow,
very soft and friable (though
very hard on the surface) and
it makes dust !!! - Terrible! -

Aug. 28, 1935 (see p. 12 in 20
1925 II notebook)

.75 mi. E. of Road # 31, Lewistown Pa.
S. side of cut, (exp. on weathered surface)
grayish, (exp. on weathered surface)
1 1/2 - 2 ft. thick.



The lowest rusty or chocolate layer is quite friable, the

The gray loam is compact & sticky, with some bands and clumping.

The reddish layer is lumpy ("lobular").

Top grayish layer is also crumbly, but finer.

No fossils.

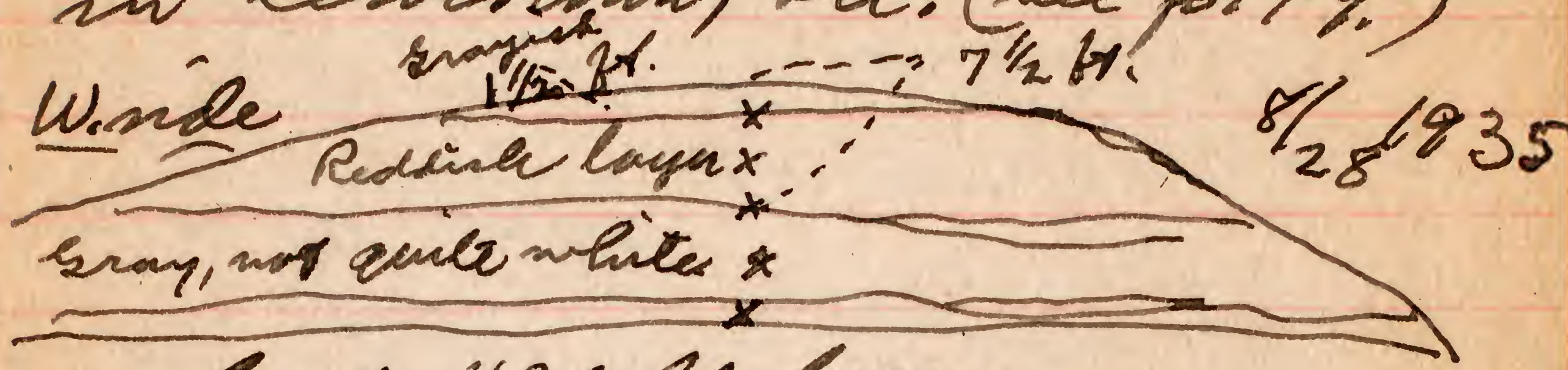
The contact between the two lowest layers is quite rusty.

The N. side seems to be similar, but is more overgrown.

The gray loam runs out before reaching W. end of cut.

(Other cut - no fossils - on p. 13.)

cut on new road to Havana,
3.5 mi. E. + 1 mi. S. of # 31
in Lewistown, Ill. (see p. 19.)



about 420 ft. long.

The E. side is a little shorter at N. end.

The gray loess grows more chocolate towards base.

Fossils extend well to base into faint chocolate.

Uppermost grayish is friable + gray on exposure. Reddish inside.

Took sample less than 1 ft. from top.

Reddish layer, - lobular, redder, heavier. Took sample 3 ft. from top.

Gray loess - with reddish clonding and 2 bands of shells (see cross-sec.)

Took sample at 7 1/2 ft. where gray + reddish meet. Line is quite sharp.

Took 3 samples of gray loess, one in upper band, one in middle + 1 in lower band.
(over)

Section of preceding (p. 21)
of gray loess.
(Reddish)

1-2 ft.

~~~~~  
About 2 ft. Shell band.

Few shells  
(scattered)

} About  
5 ft.

~~~~~  
Shell band.

} About
3 ft.

} About
2 ft.

===== Rusty band.

1 or 2 ft. Chocolate layer, crumbly
in ditch.

Shells more abundant in lower layers.
Margie also collected on E. side
(only lower part, - she saw none above)
The shells were not as abundant
as on W. side.

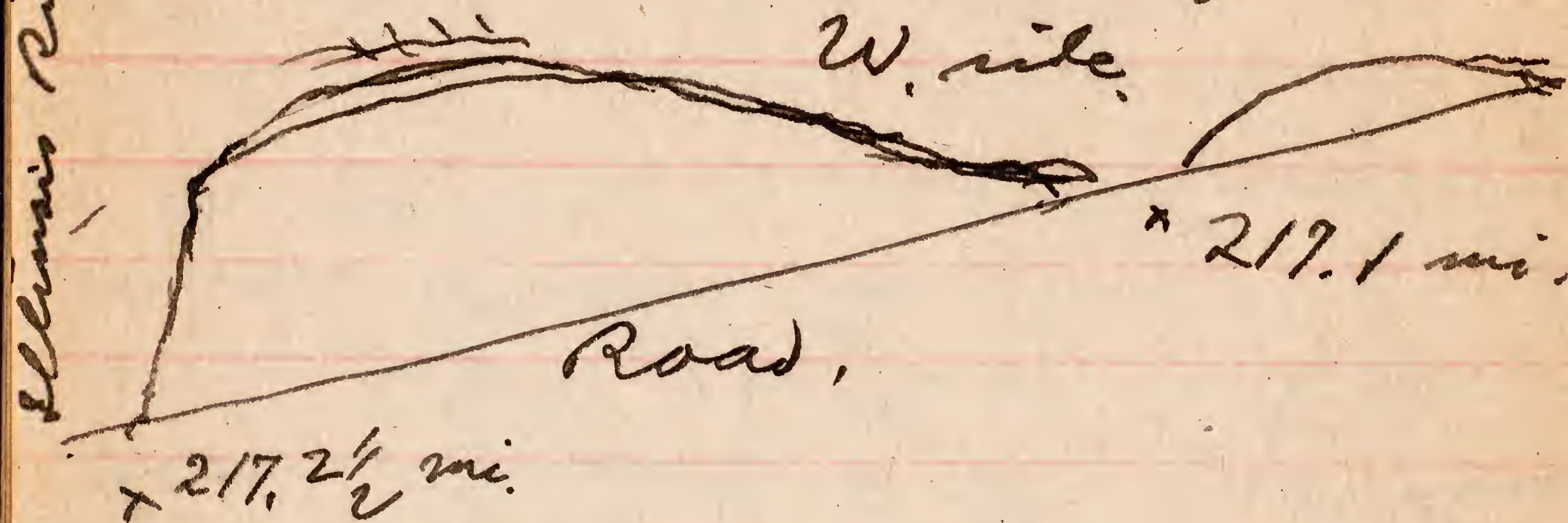
Aug. 28, 1935

Aug. 28, 1935

Big cut, 3.5 mi. E. + 1.5 S. to
point between the two cuts on
W. side of road. (at 217.1)

Lower end of big part of cut =
217.2½. This makes big part
of cut nearly 800 ft. long.

This is where road cuts through
bluff to Illinois River flat.



The upper cut begins at top
+ extends about ¼ way down. The
E. side is higher, shows gray loess
below + a little reddish above.
There is a shell-band, - interrupted
within the lower 6 ft., - could see
some above. This E. side is
about 12 ft. deep.

The W. side is about 8 ft. deep, &
also shows a few Sec. ovalis, Polyzonia
multilunata, etc. (over) Marjorie gathered some shells
here.

The big part of cut (or 2nd cut)
below is higher on the W. side.
Marpie picks shells from E.
side of ~~upper~~ upper part (up
hill) of this lower cut.

One lot was taken (on E. side)
about 3 or 4 ft. below top (no
shells above this).

The other (lower) lot she collected
from lowest 6 ft., but there
were shells scattered between (not
much distinction here)

On the W. side of (lower) big
cut. There were no shells in
the uppermost 3 or 4 ft.

The shells run through the upper $\frac{1}{2}$
of gray loess quite uniformly,
and they are very abundant.
Many were crushed, especially
Polyg. multilinea

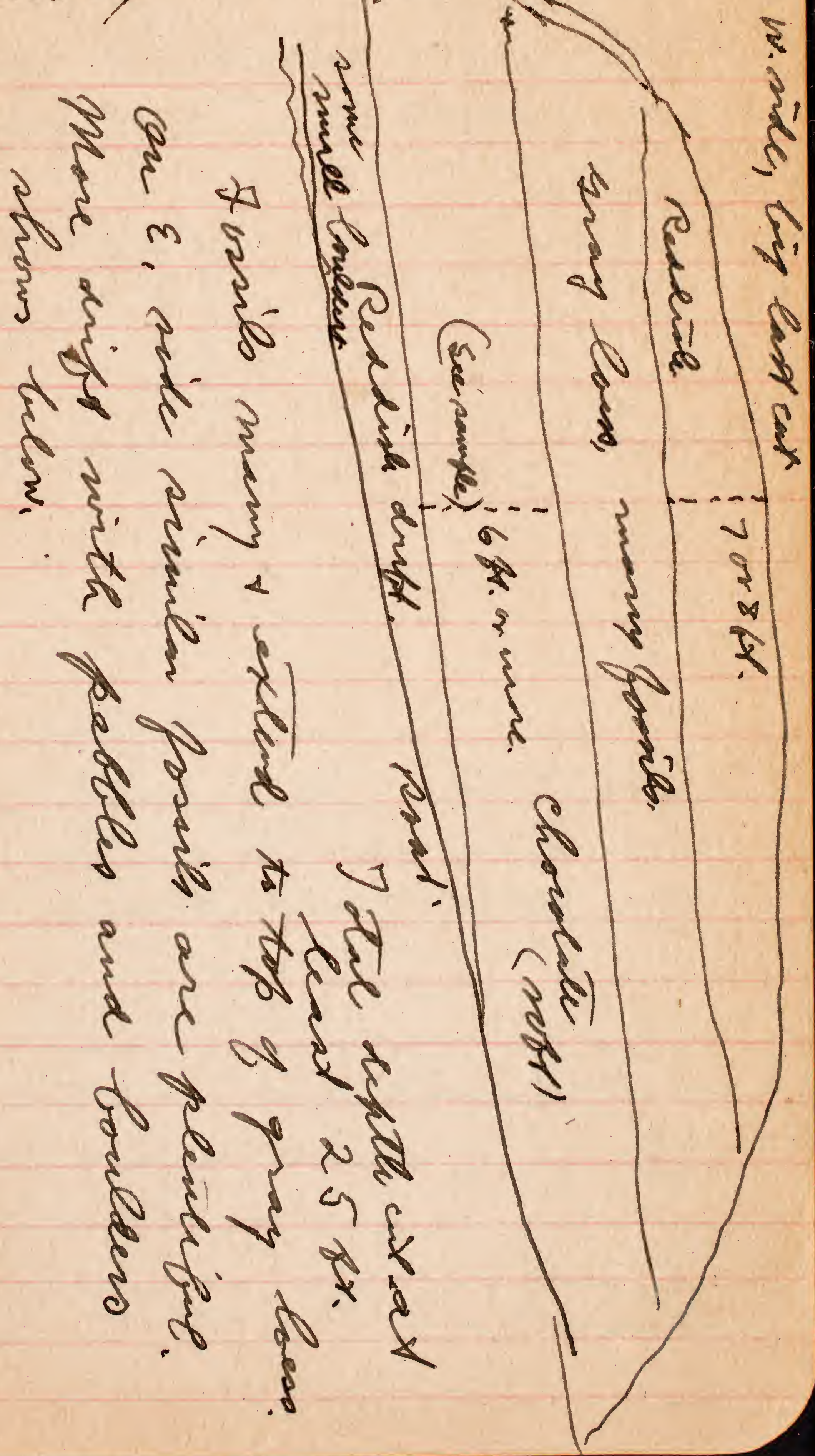
Took sample of gray loess (W. side)
in sack.

At lower end of big cut at least
6 ft. of shaly rock appears at base.

Reddish drift above rock, 23

6 ft. of shaly rock appears at base.

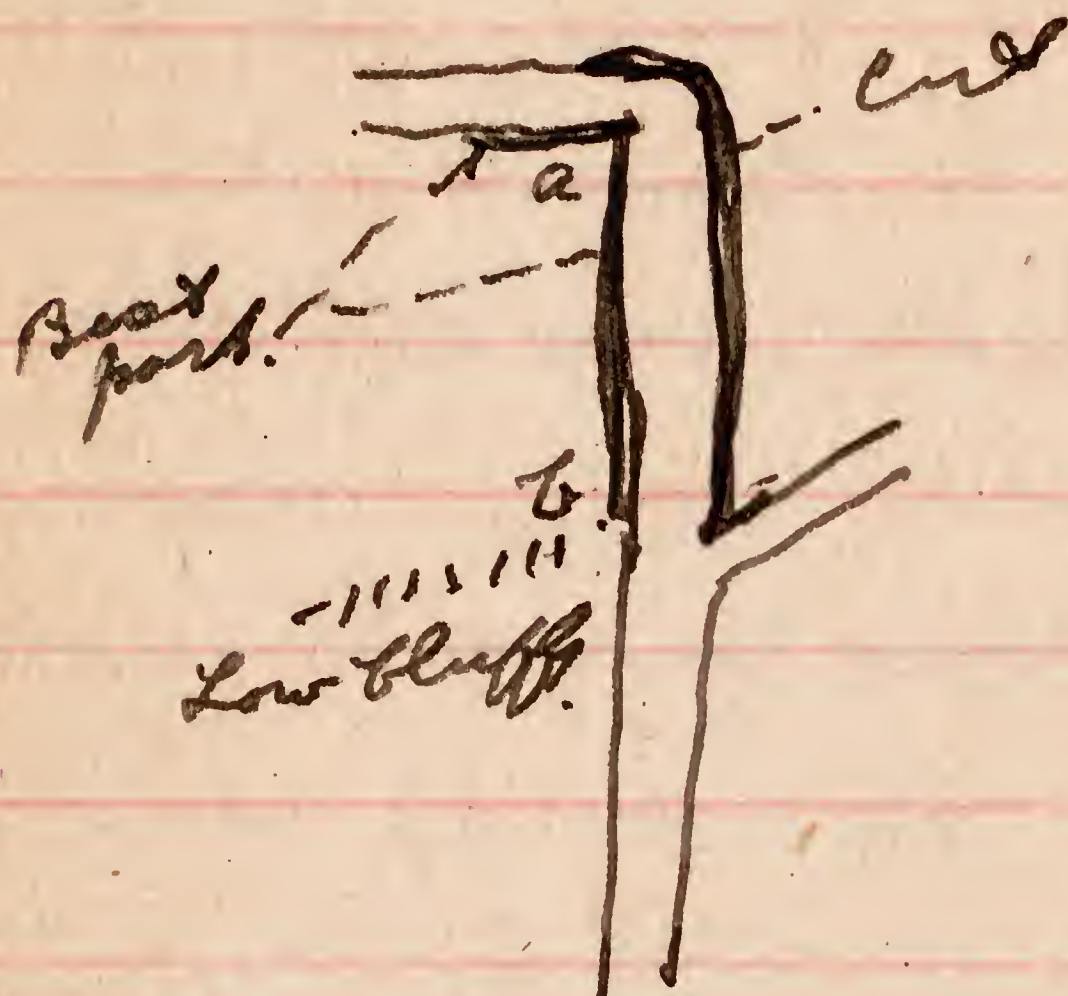
Reddish drift above mtl, 23
probably 8 or 10 ft.



Aug. 28, 1935

24

Cut along road S. of Lewistown
towards Waterford, - at center
of Sec. 31 in same Twp.



waterbn

At (a) about 10 ft., - all light yellow
loess. Shows harder material and
drift towards lower slope at (b)

at 247.2 - on road toward Enion, Ia.
Small ridge shows gray loess
with iron bands, cloudings & horizontal
lines (many in places) + very fragile
fossils. Samples of each & fossils taken.
(over)

Red, lobular

gray loam

7 ft.

Road

Other cuts without
fossils, pp. 22, 23

Aug. 28, 1935

along # 98, 5.8 mi. W. of
W. end of Havana, Ill., bridge
on side road (at entrance) running
north. (at 253.6 + miles)

at least 8 ft. of gray
fossiliferous loess, with lime
nodules and iron cloudings
See box of shells.

This is well up, - top on
level with general surface.

Aug. 29, 1935 Cass Co. 26

Cut on Road # 78, 1.9 mi S.
of Chandlerville, Ill.

A fine, long cut - in edge of bluff.
E. side deeper & larger.

Shells were scattered all over
this quite abundantly, - some,
as Polygyra monadon and P. multilinea
in colonies. They extend clear
to the top.

Took a sample 1 ft. from top
and another 12 ft. lower.

The sand grades up gradually
into fine light yellow loess
through more than a foot. (Can
see down below).

Total loess about 16 ft. &
about 15 ft. of sand below, at
highest part of cut.

Many lime nodules but no sign of iron.
Took box of clay from two spots
at same level about 6 ft. apart
and 9 ft. from top.

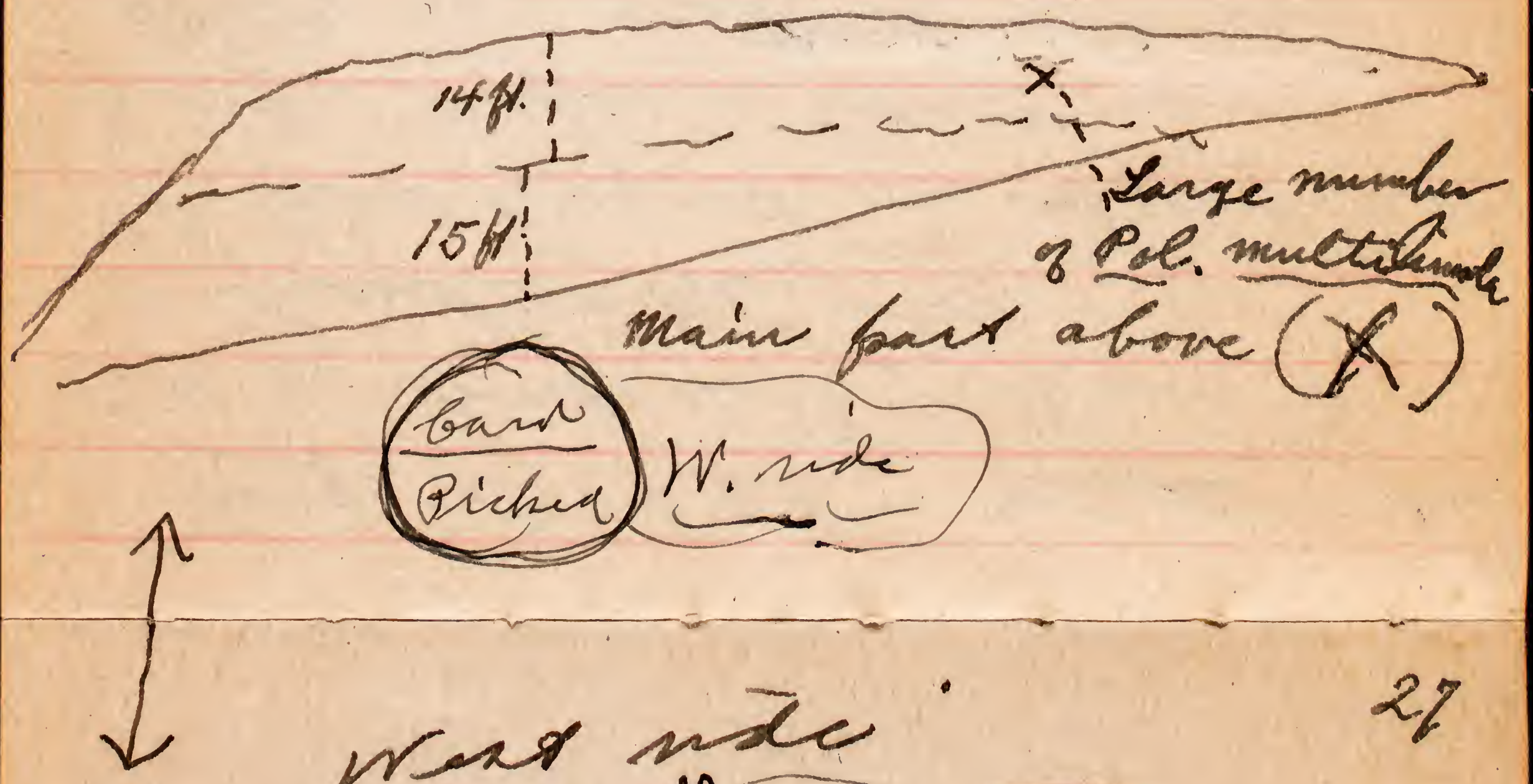
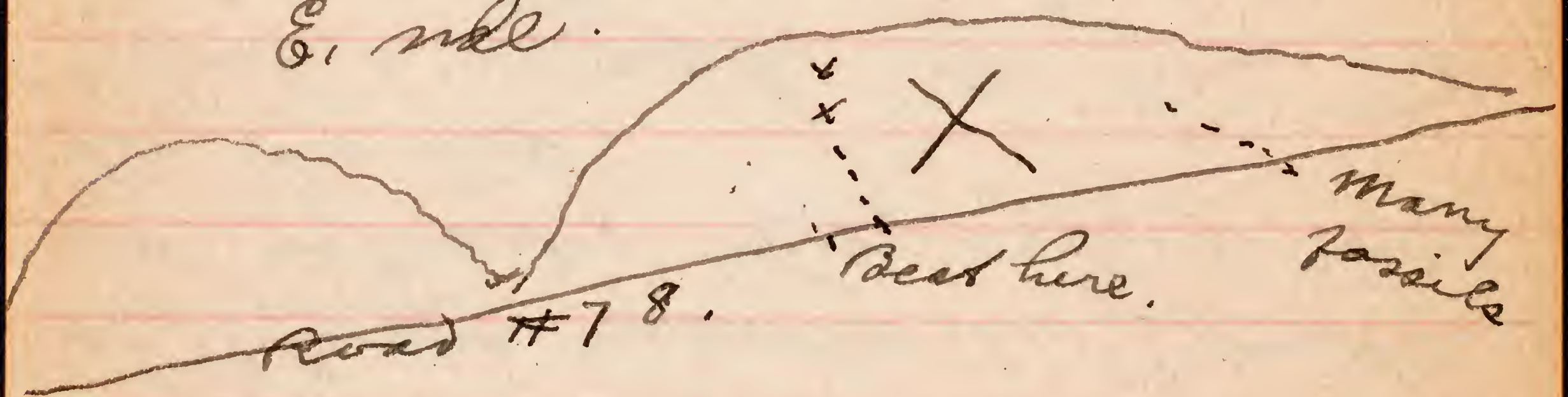
The loess evidently slopes down
towards the west, being much
lower on the west side, ^{only 11 or} 12 ft.

This is wooded country, - on bluffs,
but is very dry now.

The Sangamon River has a good
many bars here. Its valley and
that of the Illinois blend here.
What an opportunity for loess!
Broad sandy flats and river
bars for source, & wooded low
bluffs for anchorage!

Cuts overgrown, - could not see if
there is inter-stratification.
Where I could see, the transition
was gradual. Fine sand below.

E. side.



Picked W. side

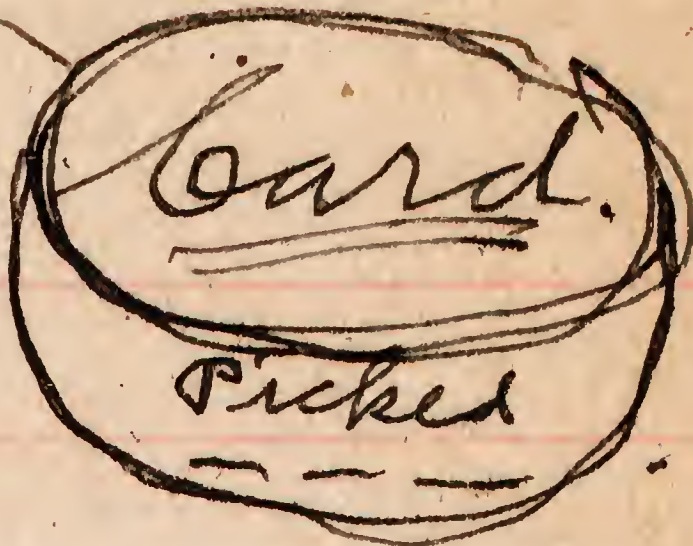
27



West side

2 cards

E. side



Picked

Estimated
1'8 + ft.

many shells

Margie picked up shells
on west side & some on east,
and I worked on E. side.

Notes in field. book 1935 II
pp. 26-30.

/28.

~~Aug. 29, 1935~~
~~East of Pekin, Ill., on #24~~

Sep. 13, 1935.

Valley below Keokuk narrow,
bare little trees.

On road over ridge, west
of Hardin, - 2.3 mi. W. of bridge,
a cut on top of Miss. bluffs - there
is loose yellow loess. Shells
only at surface (recent). See samples

At 3.3 mi. E. of Hardin, -
a low cut (6 ft.) in gray
loess with iron belt (see sample)
and two shells (loess?).

On low ridge in valley, facing E. -
W. of top.

This great ridge separates
the Mississippi and Illinois
valleys.

Sept. 13, 1935 Calhoun Co. 29
at 3.8 miles W. of Harding
at gentle slope facing W. on
N. side of road, - a yellowish
(grayish) loess, with iron tubules.
Polyg. multilocata, etc.
(see shells) - cut long, 10-12
ft, exp.
a little pebbly drift shows
below.

At 4.2 miles W. of Harding
a similar yellowish loess has
fossils.

See fossils + box of clay.
This is near foot of Low Bluffs
at edge of valley.

Card
a) Picked
b) Washed

The junction of Illinois &
Mississippi Rivers described
in Field-Book Br 1935 II,
pp. 40-41

Sept. 14, 1935.

Alton, Ill.

At Market and E. 6th St.

There is a fine exposure 18 or
20 ft. high, with vertical face.
It is "pink" loess from top to
bottom, and through it are
scattered shells. Saw some $\frac{2}{3}$ of
the way up.

Mostly large Pol. multilinea,
in one place crowded in a layer
2 or 3 ft. wide. Shells mostly broken.

1 Polygyra appressa

Took sample and box of clay.

Also drove to the Cliff Street
exposure, but found it covered
with stripping. Found no shells.

Sep. 14, 1935.

31

On #67, 3.1 miles S. of
Alton, Ill., a cut of yellow
loess on E. side, just a little
above river flat, on a "foothill"
of the bluffs, shows some nodules
and a few shells.

Took sample of clay.

cut without shells on pp. 43-44

My old cut 4.05 mi. S2. of
Crain, Ill., on #144. (see p. 7)

Took box of clay with fossils.

Margie picked some shells.

A yellow loess.

I took clay from block which
slipped from upper $\frac{1}{3}$.

Near base of long slope, rising
east.

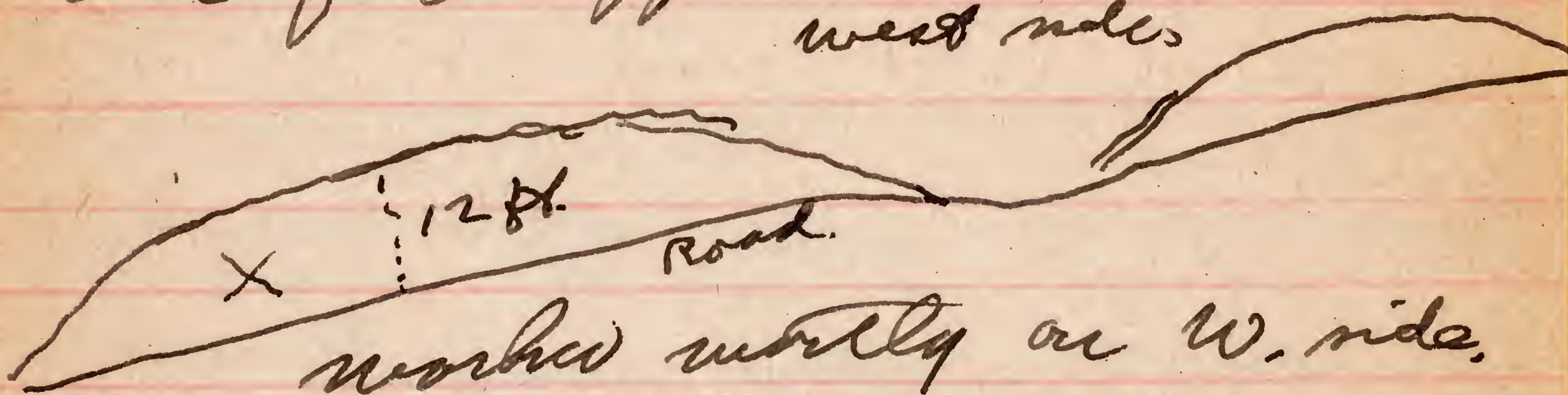
Rock (shale) appears high
above this loess, — on the
slope above, along road.

numerous cuts W. of
 Murphyboro, Ill (no shells)
 (see book for 1935, II p. 47.)

Also p. 50

Shawneetown bluff, 3 mi.
 north of Shawneetown, Ill.
Sept. 15, 1935

Cut extends well to top from
 base of bluff. west side.



worked mostly on W. side.
 The lower cut (= X above) shows
 a compact heavy yellow loess
 of the older type, with gray
 streaks, and below almost
 all gray.

The fossils are mostly from
 the lower $\frac{1}{3}$, but a few are
 scattered above. They are very fragile.

About 3 ft. from bottom there
 is an irregular layer of very (over)

large nodules (see spec.) and
shells are plentiful here, -
but fragile!

The bank is almost vertical.
The upper part of this cut is
about $\frac{1}{2}$ of the total. It
shows about 4 ft. of red much
and about 8-10 ft. of yellow
loess of same type, but it
contains no fossils, - or possibly
a very few. Took sample & box,
~ ~ ~ ~ ~

The upper cut, (4), shows
uniformly yellow fossiliferous
loess, capped in a few (4 to 9)
uppermost feet with a layer
more ash-like loess.

The lower part of the upper
cut is about 12 ft. deep.

Collected shells mostly in
lower 4-5 ft., by digging.

↑ Noted the same scattered nodules.
↓

The shells are *Succinea* etc.

↑ Noted the same scattered nodules.
↓

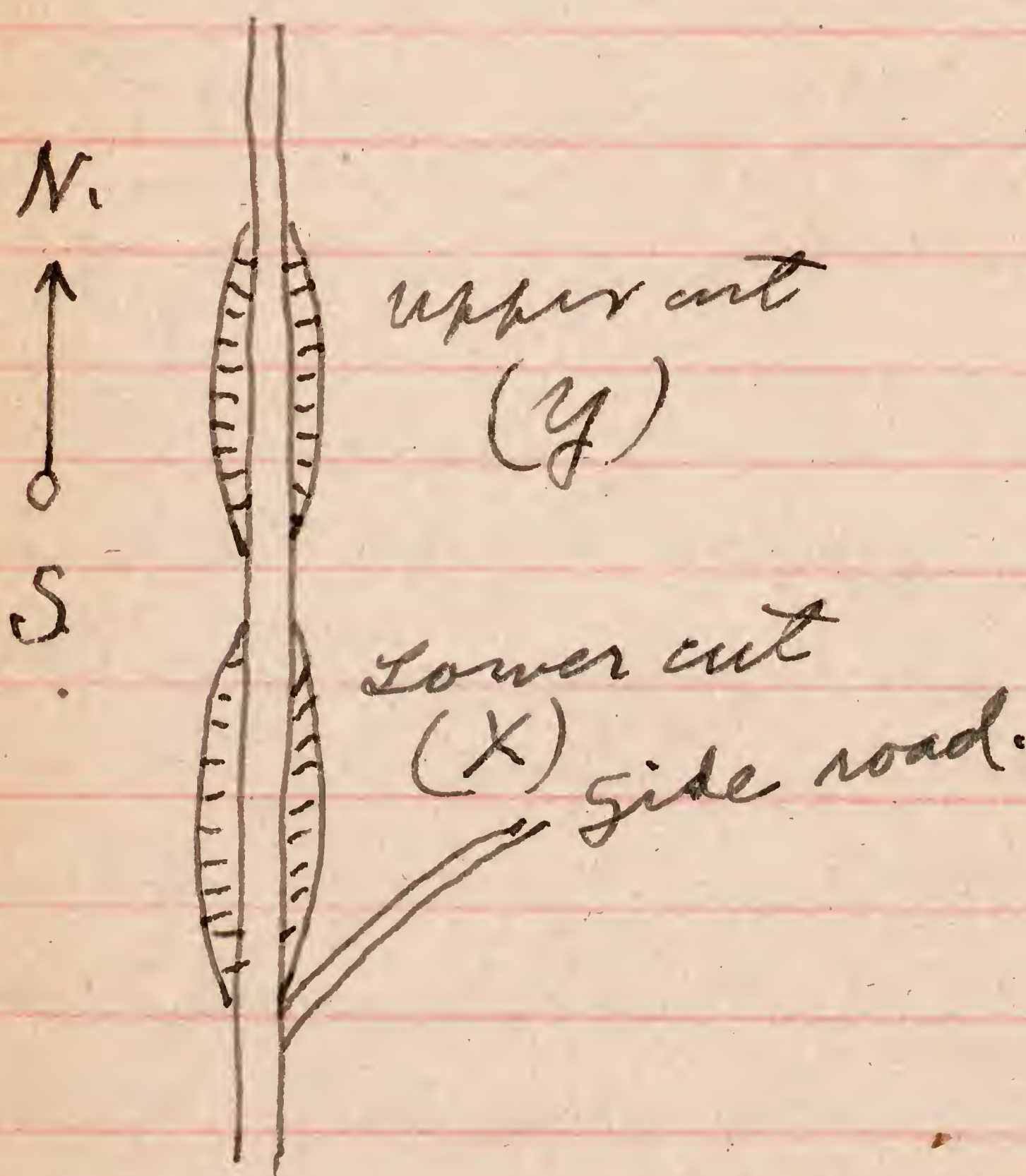
33

The shells are firmer than in the lower cut.

Took box of clay & sample, also a few nodules.

Cut runs up to top of hill. Did not work Tremont part.

Top view (plan) of cuts X & Y



The upper cut is a, nearly, uniform yellow loess, upper part lighter in both color and texture.

Sep. 18, 1935

8.5 mi. E. of Boonville, Mo.,
on #40, at foot of hill at
outlet through bluffs to flat.
A few scattered fossils &
some nodules.

The fossiliferous section
faces the valley.

Now fossiliferous cuts in Morrison
Book for 1935 II, pp. 76-79.

Sep. 19, 1935

On flat below the big bridge
on #65 at Waverly, Mo., at the
RR. station above the bridge ($\frac{1}{2}$
a block below it) there is
a section of yellowish ^{loess} (see small
sample and nodules), but in
part below is hard and white,
with few iron tubules, but
no fossils.

cut with no fossils - Book for
1935, II, pp. 81, 82, 83.

35
Sep. 19, 1935

St. Joseph, Mo., cuts

Big cut of pale yellow loess
at Miami & Clayton Sts.
Saw one fossil

One block W. of Miami on
Clayton, & about 20 ft.
lower, there are two loess cuts
(on Russell str. S. of Clayton)

On E. side only about 4
ft. exposed, - yellow loess.
Took box.

On W. side about 6 ft.
gray loess with tubules
& fossils. Took box.
("Russell" is 1 block E. of
#59)

Cuts with no fossils at
St. Joseph, Mo. Bohrer 1935 II,
pp. 86, 87

W. H. Weldon, Jr. p. 80

Oct. 14, 1935

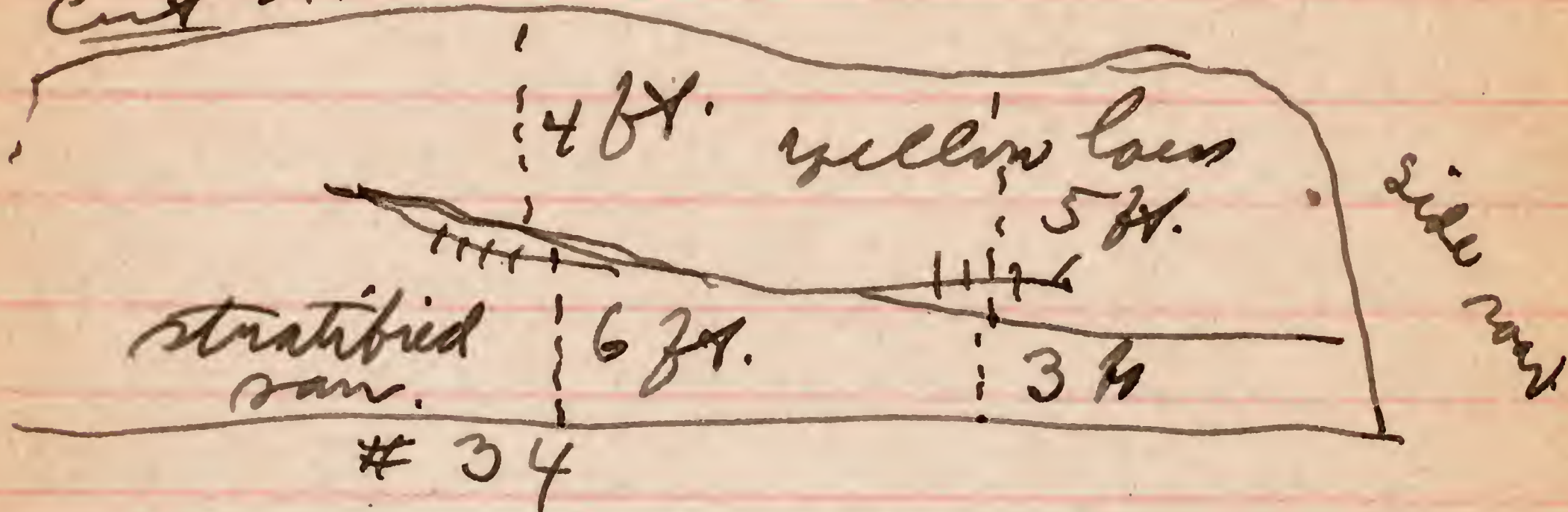
36

2nd cut on # 34, 8.65 miles
E. of E. end of Burlington, Va.
bridge. On N. side, only
a light yellow loess (see
sample) over dune.

~~Cut 3 - 8.75 mi. E. shows only sand.~~

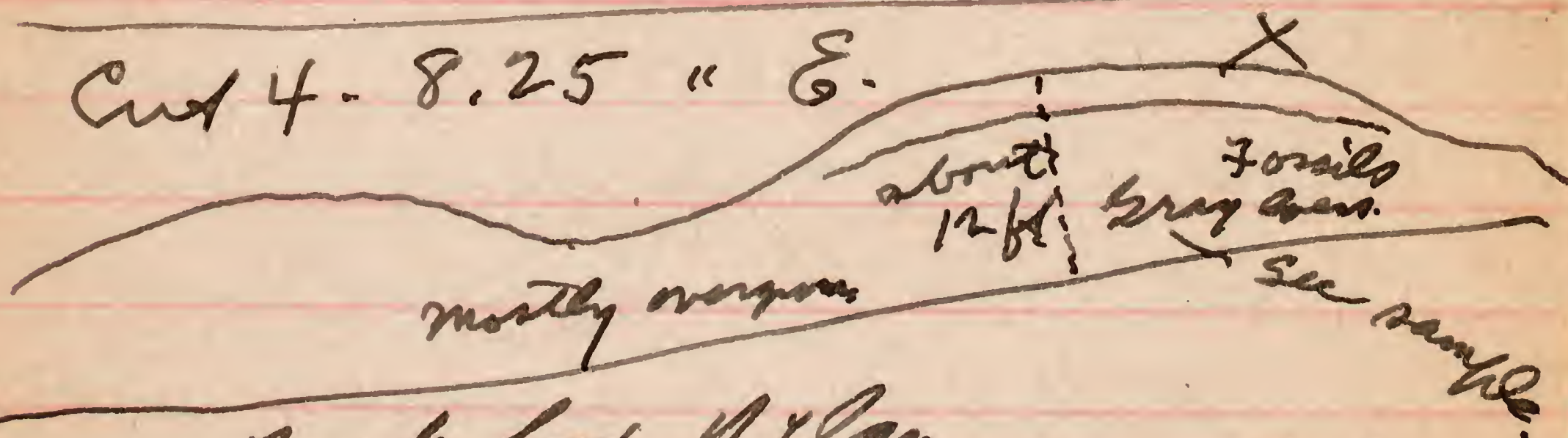
~~Cut 4 - 8.25 " E.~~

~~Cut 2~~



Cut 3. - 8.75 mi. E. - sand only.

Cut 4 - 8.25 " E.



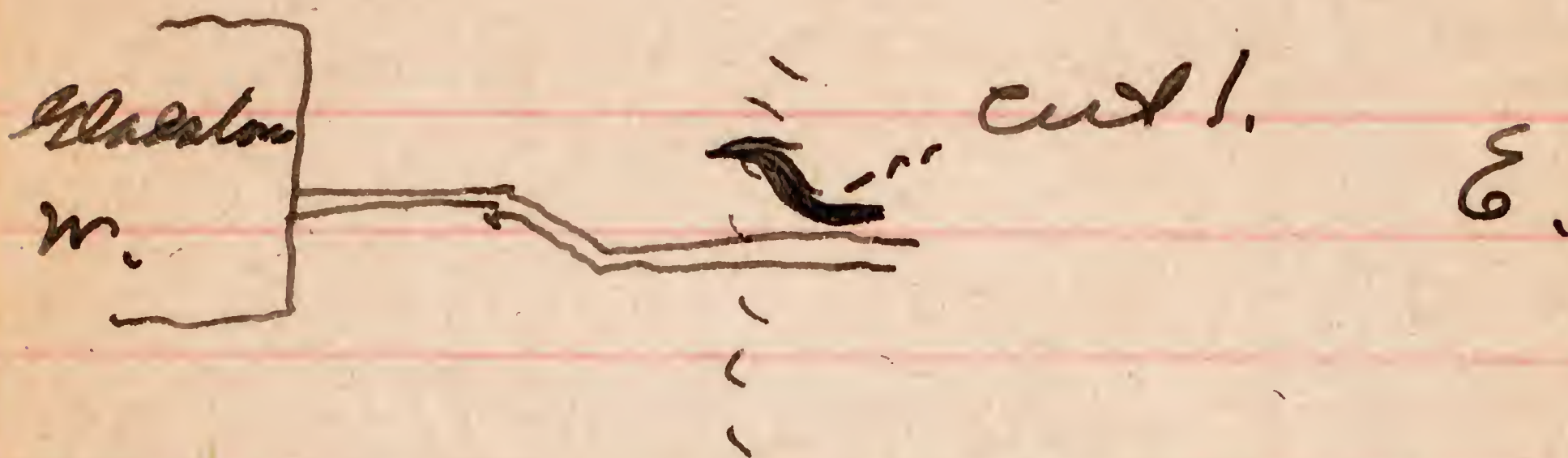
Took box of clay.

at top - 2-2 1/2 ft. of reddish lobular
stuff. no fossils in this part
Fossils throughout gray loess.
few small nodules, & iron-oxidizing &
some tubules. Best part at X, about 7 ft.
deep.

Oct. 14, 1935.

37

Gladstone, Ill. - old cut 1 - on
road going east. In face of bluffs.



Picked up a few shells. Took
sample & box of clay.

On 94 A, 2.3 mi. E. of Ognawka,
Ill., inside of bluffs, new road
cuts below old road, leaving latter
as a terrace. New part of
cut shows only drift.
Cut above old road shows gray
loess.

A good many fossils in the
lower (east) part. At left
only fragments of shells.
Fossils at right (east) can
extend well to reddish layer
above.

(over)

W.



Oct. 14, 1935

38

aledo

Oct. 14, 1935

38

aledo

70.3 1/2

124.6 1/2

#67

N
↑
S.

Henderson to
cuts.

77.1

117.8 1/2

#67

alexis

79.4

115.4 1/2

#74

81.2

113.8

112.5

82.4

#94
85.8

105.8

104.4, last cut.

#94

#94.B.

72.4

102.6

102.2

2.4 mi.

2 mi.

95.7

#94 A

#94 A

98

100.2

4.5 mi.

Cut 10.7 mi.

the 89.2 + 89.8 1/2
cuts are of
Henderson Cr.

Polablu

86.9

88.1

88.4

88.7

89.2

90-90.0 1/2

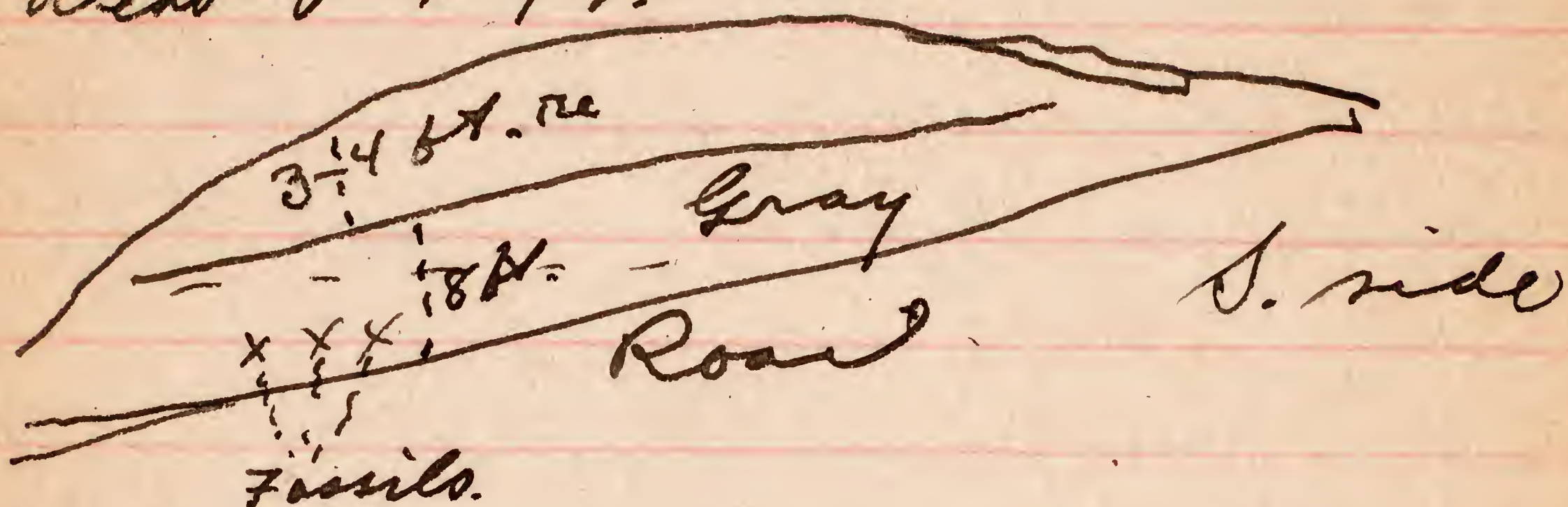
90.4 1/2

Ogawa

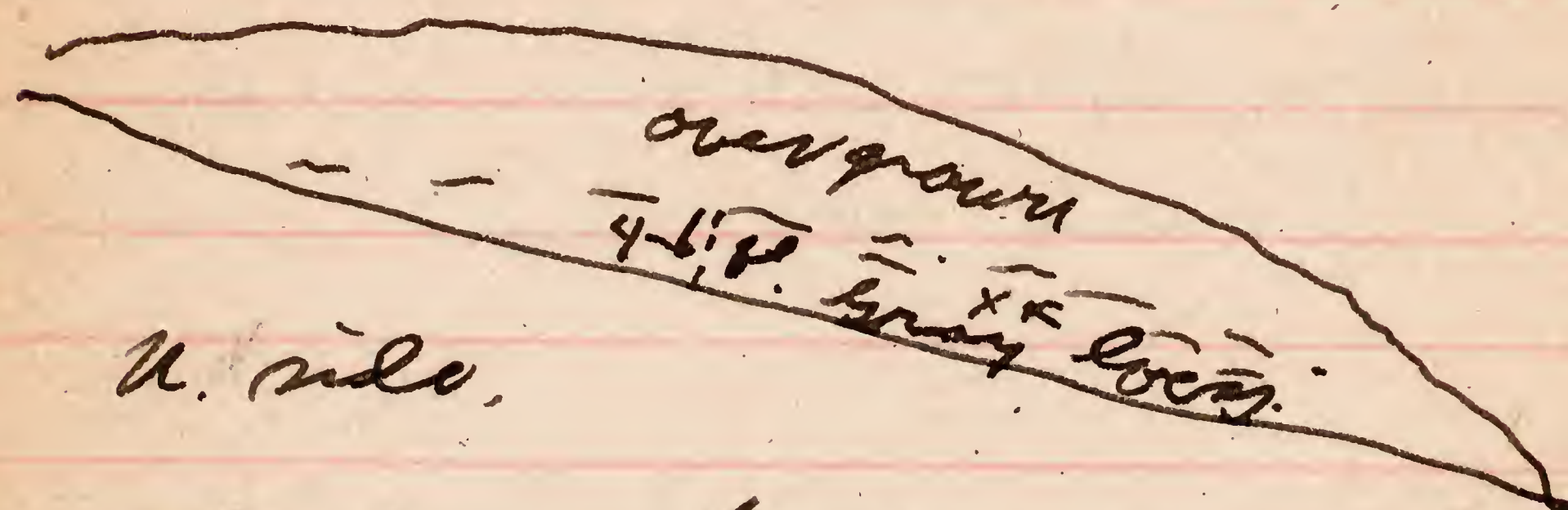
Oct. 14, 1935

39

on side road 4.5 mi. E. + 2 mi.
N. of Oquawka, Ill., ^{begin} 100 ft.
went to #94.



Took sample of upper & lower beds



The lower part is gray loess with
rusty streaks, iron tubules & also
scattered nodules.

Fossils are scattered all through

At about x there was a boggy place
or pond, shows many small *Lymnaea*.
Farther up hill I saw no *Lymnaea*,
but *Succ. avana*, etc. appear

Oct. 14, 1935

40

on side road (see preceding)
about 260 ft. west of that cut

This is similar to preceding,
6+ ft. of gray loess, with reddish
top layer. Fossils (see shells)

Next is cut, about 265 ft.
west of above, also shows gray
loess, but no fossils.

Oct. 14, 1935.

41

at 102.6 (4.5 mi. E. + 2.4 mi. N.
of Oquawka, Ill

a fine cut, about 135 ft. long +
about 10 ft. deep, on E. side, only
gray loess with upper yellow, as before.

The gray is very fossiliferous,
has nodules + clonings + tubules.
Took sample and box of clay
also shells.

(see also p. 111 (Book 1935, II)
for diagram showing other cuts.

Oct. 19, 1935 (at 102.6 above)

Took two boxes of gray
loess, one near middle of
cut (#1) + one in middle of lower
(B.) half.

Oct. 14, 1935

42

Long cut of this day, at 104.4

4.5 mi. E. & 4.2 mi. N. of Ogunah

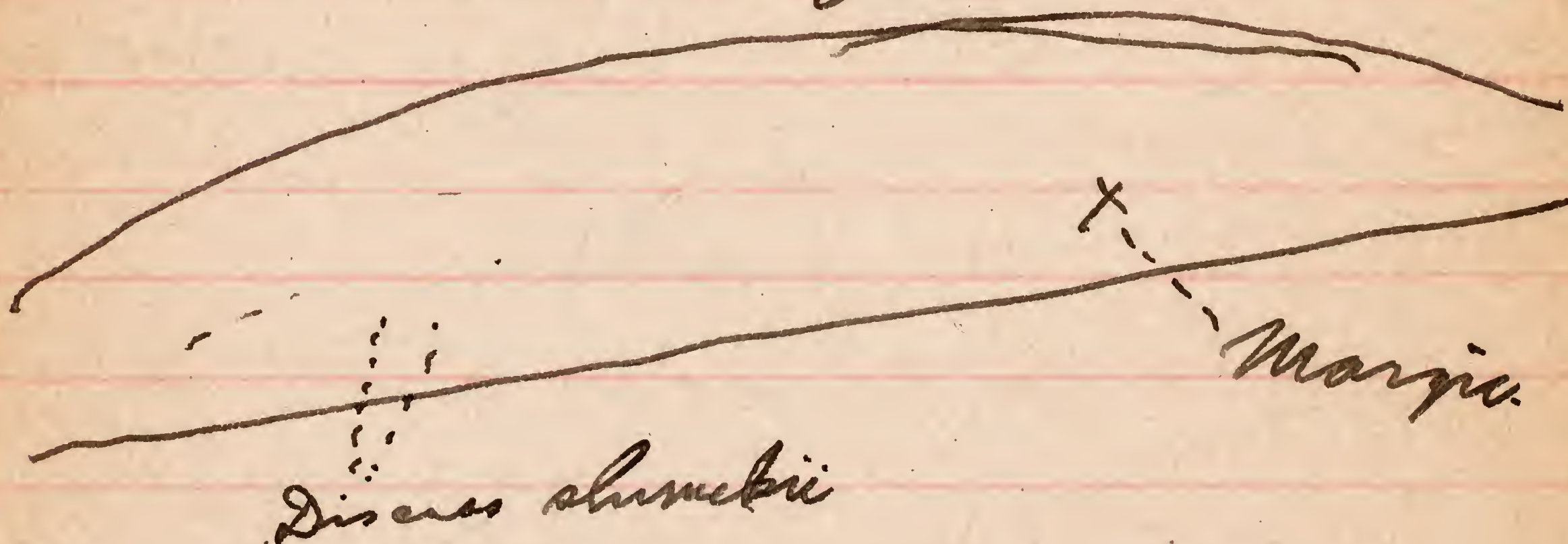
A fine cut, over 20 (25?) ft. deep. Yellow loess with wavy lines on weathered surfaces. (dune effect.)



(see p. 248a
this book)

Fossils are scattered. Took box of clay, sample & shells.

E. side of cut.



Oct. 19, 1935 - at 90.4½ mi.

(the last cut above on this base)

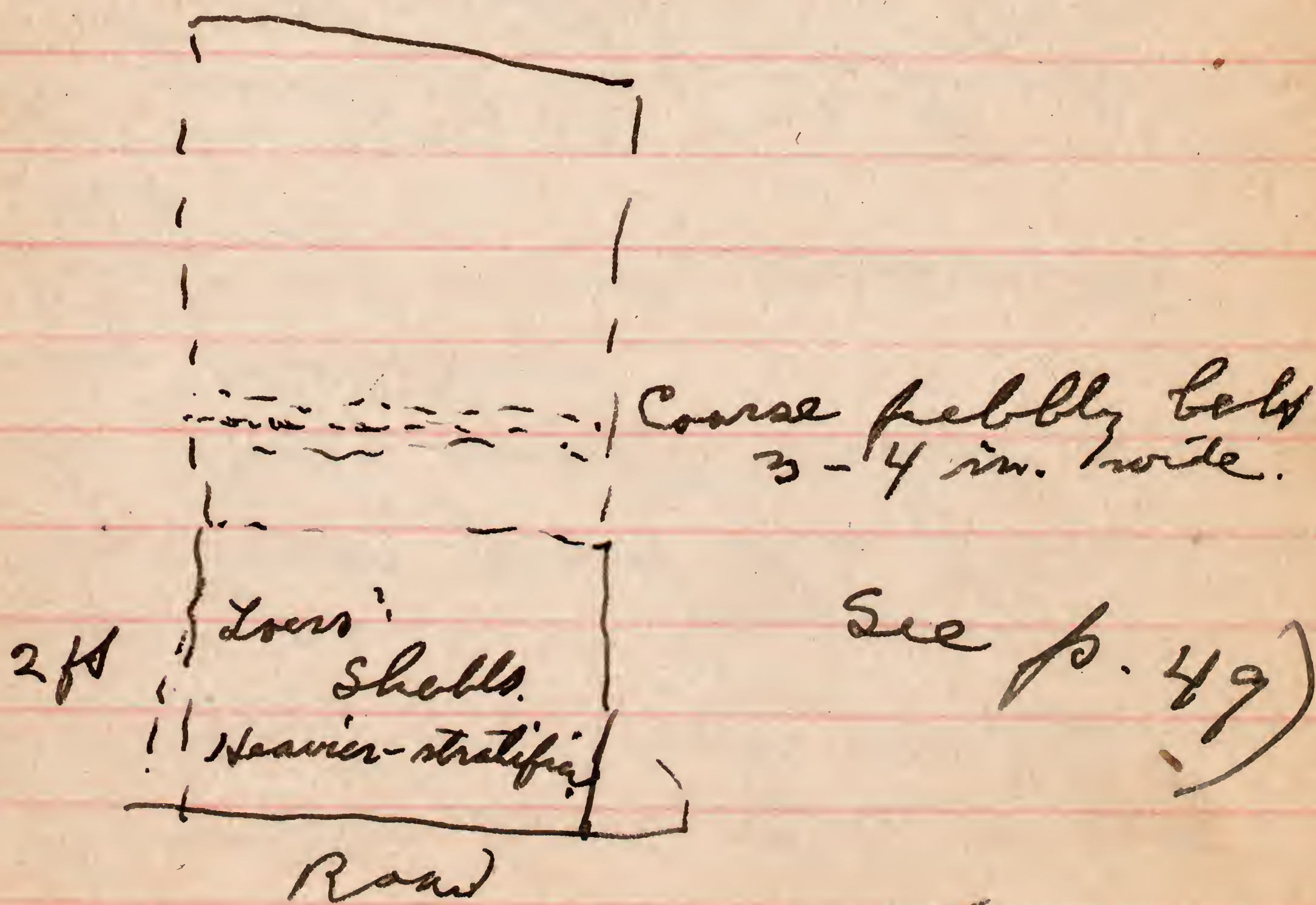
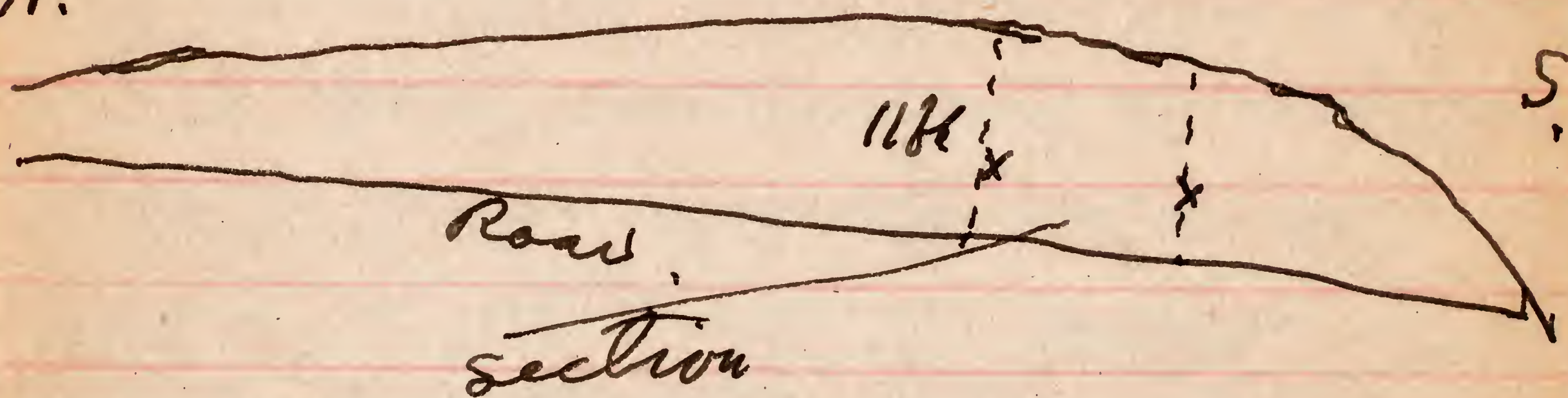
Took box of clay near base
(6 ft.)

Oct. 19, 1935.

43

cut at 50.4 mi., 4.2 mi. S. of
Copper Creek S. of #84, Illinois
cut in road at base of bluffs, -
about 120 ft. long. Slopes a
little to S. The E. side is better
It is near the base of the bluff,
at edge of wide bottomland.
The best part for fossils was
between the x's.

N.



(over)

The upper part ~~12~~ is less stratified and more uniformly yellow.

The lower part has fine silt-like lines and ^{is} brownish, with gray clondings.

Parts are sandy, especially below.

The gravel at base of bank may have been washed from top, or blown in very heavy storm.

It is also possible that this lower part was subject to overflow. It is about 20 ft., or less, above bottoms.

Took samples (middle + near base) + box of loess, - all from strip figured above.

Oct. 19, 1935

60.1

44.

80 - 20 - 100

Oct. 19, 1935

60.1

44.

a big cut at 60.1 mi, just
where #83 enters bluffs, -
near Joy and 10.3 miles west
of Alledo, Ill.

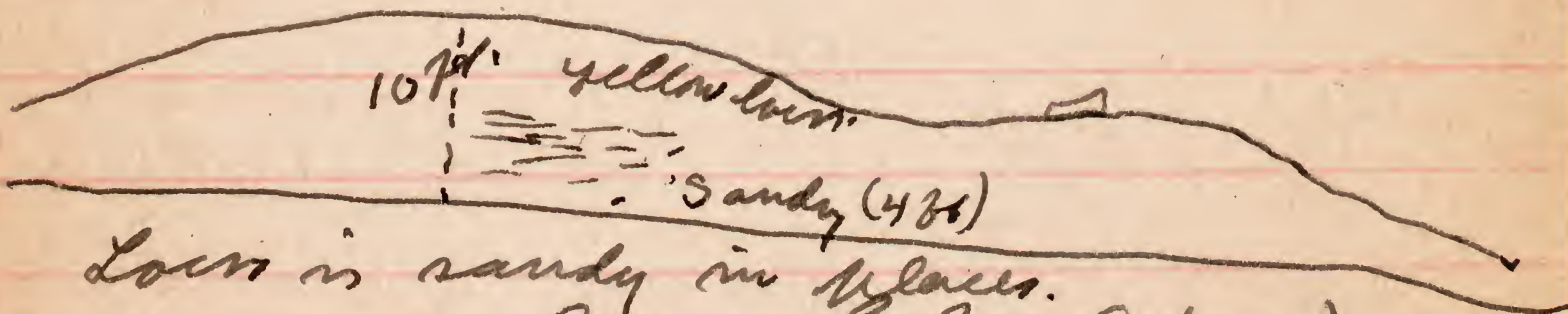
It is about 25 ft. deep, & shows
light yellow friable loess almost
to base, but is badly overgrown
with Robinia, etc. on both sides.

A few fossils seem to be scattered
all through. A few round nodules.
See shells, nodules + sample.

Oct. 19, 1935

Cut at 86.9, on E. & W. stretch of #94
1.2 mi. E. of Baldbluff, Ill.

In the west low bluff of the Broad
Henderson Cr. valley.



Loess is sandy in places.

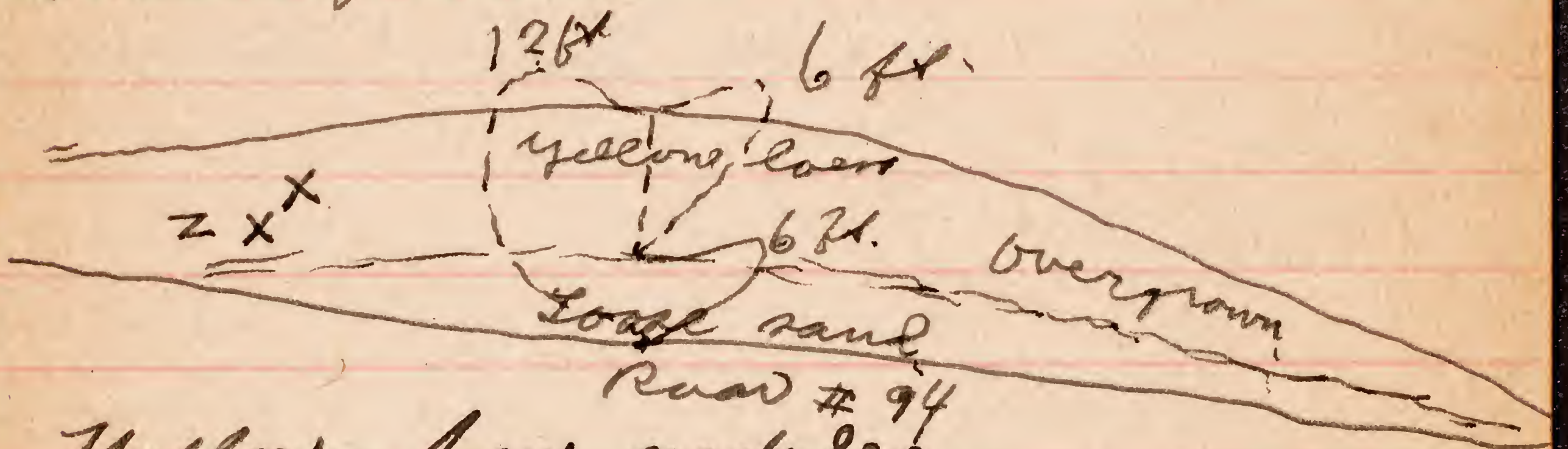
A sandy layer below (dune)

Few scattered shells.

Oct. 19, 1935

45

Cut at 88.4 mi., on E. side of
#94 only .3 mi. S of turn at
Baldbluff, Ill.
about 360 ft. long & 12 ft. deep
in deepest place.



Yellow, - few nodules.
Shells most abundant in east
third of cut.

Took box from ^x & sample from
Z.

all parts overgrown.

Oct. 19, 1935.

46

at 88.7, - - 6 mi. S. of
Bald Bluff, Ill. is almost
exactly like the preceding
(88.4) cut.

Fossils, loess & sand the
same (took some).

Oct. 19, 1935

at 89.2 mi., just S. of
Henderson Cr., on #94.

a fine yellow loess (all of it)
with fossils scattered almost
or quite to the top, but most
abundant within 8 ft. of the base.
Few nodules. Took box, sample
& shells.

This is really a fine
series of cuts.

(see diagram on following
page)

N.

Henderson Creek

No. mile - few nodules.
Shells in all the cut.

Road #94.

Side road.

Sample.

lot.

about 20 ft.
shells 18 ft. or more.

52.

A fine cut w. just begun 47

50
A fine cut W. just beyond ⁴⁷
2nd little cut - show about same.

Oct. 19, 1935. 1.75

At 87.85 mi. (~~87.85~~ ^{1.75} mi. S.
of Baldbluff turn), on # 94.
A cut on slope down towards
S.

Gray loess with fossils
scattered through, iron clonings,
some iron tubes, and scattered
nodules (see through).

About 12 ft. high on the (better)
W. side, & capped with 3 or 4
ft. of lobular heavy, yellow loess.
No fossils in yellow part
Took a small set of fossils only.

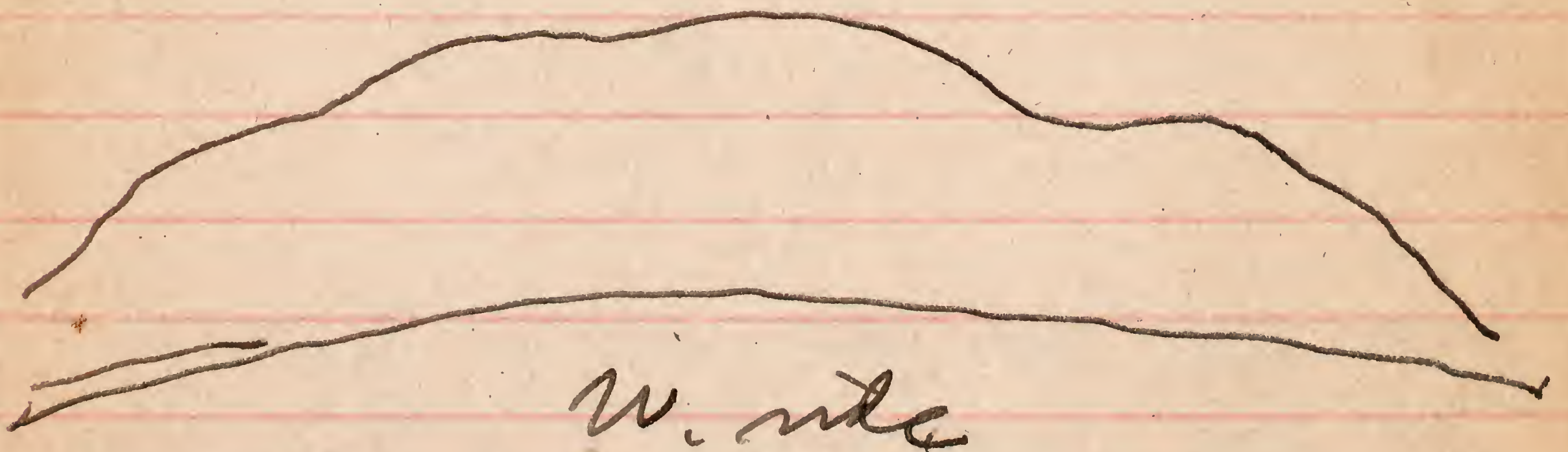
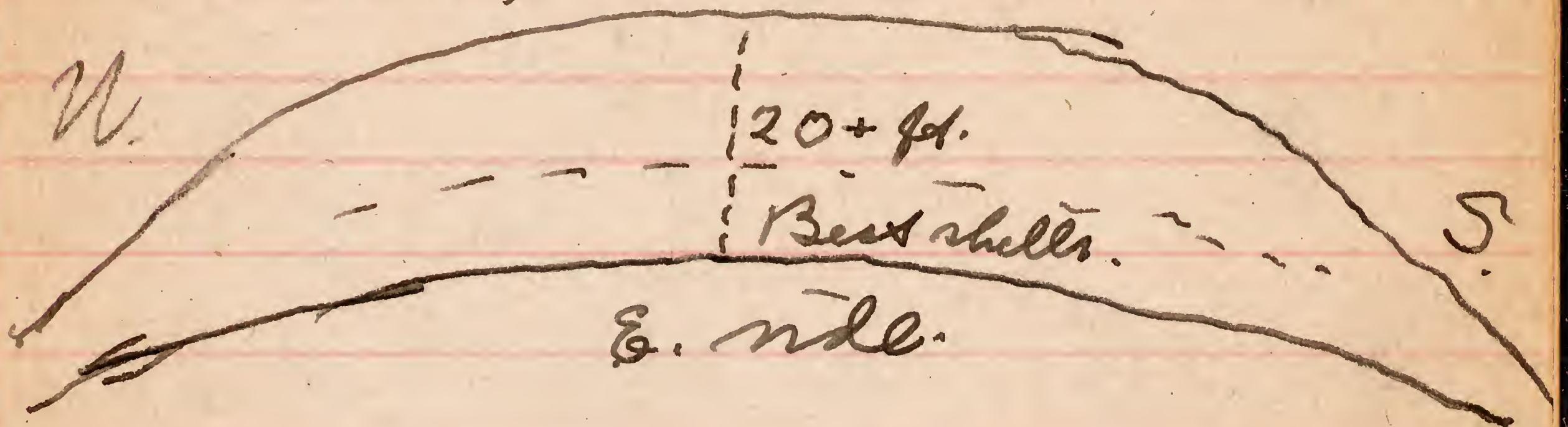
Oct. 19, 1935.

48

~~at 89.8 $\frac{1}{2}$ mi. (1.75 mi. N. of Baldbluff on #94.~~
~~Slope down hill to south.~~

At 90.0 $\frac{1}{2}$ mi. (1.9 $\frac{1}{2}$ mi. S. of Baldbluff, Ill.)

Runs up & over hill to south.
Loess grayish & mottled with iron.
Must be over 20 ft. deep.
Shells well up but not abundant
in first 8 ft. Round nodules.
See box, sample & shells.



48a

~~Oct. 19, 1935~~
~~at 90.4" (old last cut at~~
~~104.4) (see p. 42, this book)~~

Oct. 19, 1935

49

Oct. 19, 1935

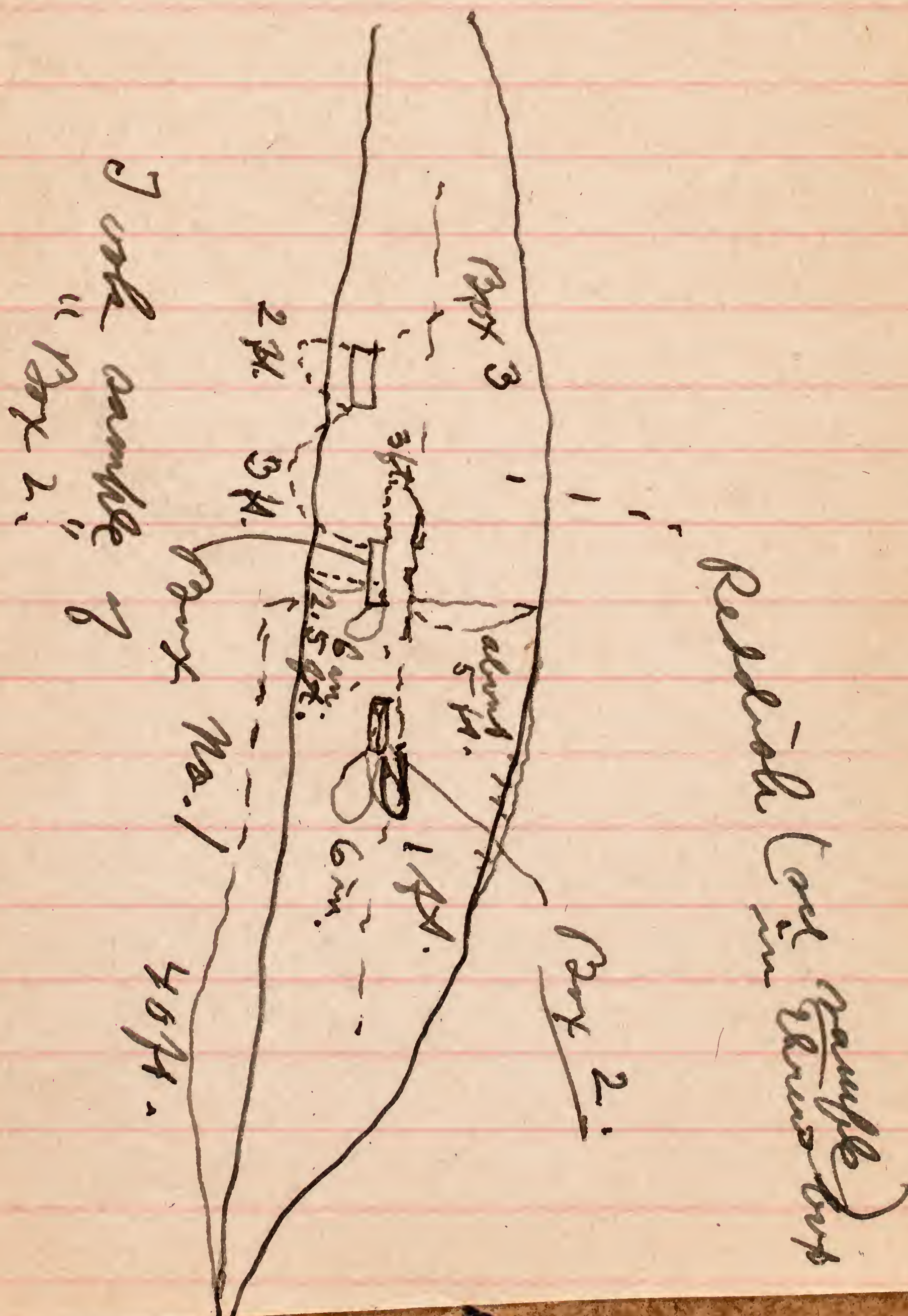
at 22.4 (see p. 41)

Copperas Cr. river

(see p. 43)

Nov.

1935 (Wednesday)



50

Boxes for washing

W. of Hardin, Ill.

$$14 \times 10\frac{1}{4} \times 7\frac{1}{2} \text{ inches} = \underline{.62 \text{ cu. ft.}}$$

Upper cut - Shawneetown, Ill.

$$14\frac{1}{2} \times 12 \times 7\frac{1}{2} \text{ in.} = \underline{.76 \text{ cu. ft.}}$$

Lower cut, Shawneetown, Ill.

$$16 \times 11\frac{1}{2} \times 6\frac{1}{2} \text{ in.} = \underline{.69+ \text{ cu. ft.}}$$

Red loess, Alton, Ill.

$$9\frac{1}{2} \times 10\frac{1}{2} \times 7 \text{ in.} = \underline{.41 \text{ cu. ft.}}$$

Yellow loess, S. E. of Crain, Ill.

$$13 \times 11 \times 6 \text{ in.} = \underline{.5 \text{ cu. ft.}}$$

(The above were washed where
67 & # 34 join in Missouri.)

~~Sept. 19, 1935~~

Oct. 14, 1935 - Boxes of clay
(p. 114 of Book 1935-II)
1 - sack - not measured

2 - Box from last cut at 104.4.
 $11\frac{1}{2} \times 8\frac{1}{2} \times 9\frac{1}{2}$

3 - Gray loam - cut on E. side of
#94 at 102.6 - $10\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{1}{2}$ in.

Better record on p. 127

Oct. 14, 1935

Cut 4 - on #34 E. of Burlington

$11 \times 10 \times 9$ in. = .57 cu. ft.

Old cut 1 - E. edge of Gladstone, Ill.

$11\frac{1}{2} \times 9\frac{1}{2} \times 8$ in. = .5 cu. ft.

Side road off 102.2 - Gray loam, W. of #94.

$13 \times 10 \times 8$ in. = .6 cu. ft.

Sack, gray loam, so row 2, 3 mi. E.

of Oquawka, Ill. about .6 cu. ft. (?)

Gray loam, E. side of #94 at 102.6.

$10\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{1}{2}$ in. = .542 cu. ft.

Last cut before dark (= 90.4 in Oct. 19 box)

$10\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{1}{2}$ in. = .542 cu. ft.

(For Oct. 19 see next
page)

~~Sept. 19, 1935~~

53

Oct. 14, 1935 - Boxes of clay
(p. 114 of Book 1935-II)
1 - sack - not measured

2 - Box from last cut at 104.4.

$$11\frac{1}{2} \times 8\frac{1}{2} \times 2\frac{1}{2}$$

3 - Gray loam - cut on E. side of
#94 at 102.6 - $10\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{1}{2}$ in.

Better record on p. 127

Oct. 14, 1935

Cut 4 - on #34 E. of Burlington

$$11 \times 10 \times 9 \text{ in.} = .57 \text{ cu. ft.}$$

Old cut 1 - E. edge of Gladstone, Ill.

$$11\frac{1}{2} \times 9\frac{1}{2} \times 8 \text{ in.} = .5 \text{ cu. ft.}$$

Side road off 102.2 - Gray loam, W. of #94.

$$13 \times 10 \times 8 \text{ in.} = .6 \text{ cu. ft.}$$

Sack, gray loam, so near 2.3 mi. E.
of Oquawha, Ill. about .6 cu. ft. (?)

Gray loam, E. side of #94 at 102.6.

$$10\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{1}{2} \text{ in.} = .542 \text{ cu. ft.}$$

Last cut before dark (= 90.4 in Oct. 19 lot)

$$10\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{1}{2} \text{ in.} = .542 \text{ cu. ft.}$$

(For Oct. 19 see next
page)

Oct. 19, 1935 (Boxes)

S. of Copper Co.
 $9 \times 9 \times 8\frac{1}{2} = .6 \text{ cu. ft.}$

at 88.4 - E. side #94 - yellow loess.

$12\frac{1}{2} \times 10 \times 8 \text{ in.} = .58 \text{ cu. ft.}$

at 89.2 - Big cut on #94 - yellow loess

$11 \times 11 \times 7\frac{1}{2} \text{ in.} = .525 \text{ cu. ft.}$

at 90.0 $\frac{1}{2}$ - Big cut, mottled loess.

$15 \times 8\frac{1}{2} \times 9 \text{ in.} = .664 \text{ cu. ft.}$

at 90.4 (= 104.4, last cut, of Oct. 14)

$11\frac{1}{2} \times 10 \times 7 \text{ in.} = .466 \text{ cu. ft.}$

Old cut (Oct. 14) at 102.6 - at middle

$13 \times 13 \times 7 = .684 \text{ cu. ft.}$

Old cut (Oct. 14) at 102.6, #2 at S. $\frac{3}{4}$.

$15 \times 8\frac{1}{2} \times 9 = .664 \text{ cu. ft.}$



